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## PERSONAL.

Mr. Bertrand T. Wheeler, Superintendent of the street department of Boston, Mass., has resigned.

Mr. W. P. Hardesty, Civil Engineer, has opened an office at 310 Progress Building, Salt Lake City, Utah.

Mr. Walter H. Tiffany has resigned the position of Master Mechanic of Oakland Transit Co., Oakland, Cal.

Mr. E. W. Ricklin has been appointed Assistant to the Civil Engineer of the Water Board of Detroit, Mich.

Mr. John Bell, Chairman of the Metropolitan Railway of London, England, has resigned owing to ill health.

Mr. William Van Fassan has been appointed to succeed Mr. C. M. Stout as City Engineer of East Palestine, O.

Mr. A. J. Reilly, Mining Engineer of the Pratt Mines Division of the Tennessee Coal, Iron & R. R. Co., has resigned.

Mr. Frank L. Getman, C. E., of Albany, N. Y., was married on Nov. 12 to Miss Frances Belle Tubbs at Fairport, N. Y.

Mr. F. K. Huger has been appointed Division Superintendent of the Seaboard Air Line, with headquarters at Raleigh, N. C.

Mr. Wm. H. Holl has been appointed Superintendent of Construction for the civil and mechanical engineering firm of Jeup, Moore & Minor, Indianapolis, Ind.

Mr. Edward E. Slick, Chief Engineer of the Edgar Thomson Steel Works, has accepted a similar position with the American Steel Hoop Co., with headquarters at Pittsburg, Pa.

Sir Christopher Furness, the English ship owner and steel master, who has been in the United States for some months past, sailed for home on the "Kronprinz Wilhelm" early this week.

Col. John N. Partridge, State Superintendent of Public Works of New York, has accepted the post of Commissioner of Police of New York city under the administration of Mayor Low.

Mr. George J. King, Consulting Engineer of the American Car & Foundry Co., Detroit, Mich., has been elected Vice-President of the Middletown Car Co., and has resigned his former position.

Mr. R. L. Montague has been appointed General Manager of the Georgetown & Western R. R., with headquarters at Georgetown, S. C., in place of Mr. E. B. Freeman, who has been chosen Vice-President.

Mr. Henry E. Raymond, in the employ of the General Electric Co., of Schenectady, N. Y., has returned with Mrs. Raymond from Sao Paulo, Brazil, where he has had charge of the erection of an electric plant.

Mr. Perez M. Stewart has been appointed Superintendent of Buildings of New York city, and Mr. William Martin Aiken Consulting Architect in the Borough of Manhattan, both appointments to take effect on Jan. 1.

Mr. W. W. Gaffin has been appointed Resident Engineer of the Chicago & Northwestern R. R. at Sioux City, Ia., in charge of the bridge being constructed across the Floyd River. He succeeds Mr. W. C. Armstrong.

Mr. Dudley Tibbits Corning, former Assistant City Engineer of Troy, N. Y., and now Assistant Engineer of the new water-works system, was married on Nov. 26 to Miss Ruth Helen Bolway, of Washington, D. C.

Mr. R. B. Ketchum, of the Engineering Department of the Chicago & Alton Ry., at Chicago, has accepted a position under Mr. Wm. Ashton, Resident Engineer of the Oregon Short Line R. R., at Salt Lake City, Utah.

Mr. E. F. Potter, General Manager of the Davenport, Rock Island & Northwestern Ry., has resigned to accept the position of General Superintendent of the Wisconsin Central Ry., with headquarters at Milwaukee, Wis.

Mr. A. W. Robinson, M. Am. Soc. C. E., formerly of the Bucyrus Co., of South Milwaukee, Wis., has been appointed Consulting Engineer to the Canadian Government for river and harbor improvements and dredging plant.

Mr. Chester E. Albright, Civil Engineer, Philadelphia, Pa., accompanied Messrs. Smedley and Barrett on a tour of inspection of sewage disposal plants in England, notice of which appeared in these columns in issue of Nov. 28.

Mr. Charles Spencer Boyd has been appointed to succeed Col. John N. Partridge as State Superintendent of Public Works, with headquarters at Albany, N. Y. Mr. Boyd graduated from Columbia College in 1877, and later took a course in mining engineering.

Mr. Royal Waldo Gilkey, Civil Engineer, of Watertown, and Miss Georgia May Dight, of Wellesley, Mass., were married on Nov. 22. Mr. Gilkey is now engaged in some engineering work at West Ossipee, N. H., and will make his home there.

Mr. B. J. T. Jeup, formerly City Engineer of Indianapolis, Ind., has gone into private practice with Messrs. A. H. Moore and J. W. Minor, Jr., as partners, under the firm name of Jeup, Moore & Minor, with offices in the Indiana Trust Building, Indianapolis.

Mr. B. Franklin Hart, M. E., heretofore with the Wheeler Condenser & Engineering Co., has associated himself with Mr. Edwin Burham, M. E., and Mr. B. F. Coffey, M. E., in a general engineering and contracting business, with offices at 62 Wall St., New York city.

Mr. Howard L. Ingersoll has been appointed Acting Division Engineer of the Eastern Division of the New York Central & Hudson River R. R., with headquarters at No. 5 Vanderbilt Ave., New York city, succeeding Mr. J. C. Nelson, resigned. Mr. William F. Jordan has been appointed Resident Engineer on new construction, Eastern District, with headquarters at No. 5 Vanderbilt Ave., New York city, succeeding Mr. Ingersoll.

Mr. F. F. Busteed, formerly Resident Engineer of the Western Division of the Canadian Pacific Ry., has been appointed Superintendent of Maintenance of Way at Vancouver, Wash., succeeding the late Mr. Duchesnay. Resident Engineers have been appointed by the Canadian Pacific R. R. as follows: Mr. R. S. Emsley, at Fort William, Que.; Mr. J. A. Switzer, at Winnipeg, Man.; Mr. R. A. Davis, at Moosomin, Assa. East.; Mr. A. J. McLean, at Medicine Hat, N. S.; and Mr. G. R. Richardson, at Cranbrook, Ont.

Mr. Guy C. Emerson has been appointed Superintendent of the Street Department of Boston, Mass., to succeed Mr. B. T. Wheeler, resigned. Mr. Emerson was born in Orland, Me., 35 years ago, and was educated at the Massachusetts Institute of Technology. He entered the service of the Metropolitan Sewerage Commission as a rodman and served in various capacities as inspector and assistant engineer until 1895, when he was given a position as Assistant Engineer on the Boston subway by the Boston Rapid Transit Commission. Upon the completion of this work he took up private practice for a year and in 1900 was appointed deputy superintendent of the Boston Sewer division.

## OBITUARY.

Mr. Patrick Sullivan, Manager for the Warner-Quinlan Asphalt Co.'s interests in Venezuela, died at the Grand Hotel, in Caracas, Venezuela, on Dec. 2.

Mr. Charles Washington Wynn, the inventor of the new process of gold extraction, died Nov. 28 in Denver, Colo. He was born in Danville, Va., 49 years ago.

Mr. Samuel Bratton, Civil Engineer, died at Loredo, Tex., on Nov. 23, aged 44 years. He was born and raised in Elkton, Md., and graduated from Princeton University in 1870.

Mr. Andrew H. Onderdonk, Assistant Engineer of the Baltimore & Ohio R. R., died at Cumberland, Md., on Nov. 28 as the result of injuries received in a fall from the portal of tunnel near Pinto, Md.

Mr. Clement Studebaker, of the firm of Studebaker Bros. Wagon Mfg. Co., of South Bend, Ind., died in that city on Nov. 27. He was born in 1831 in Pennsylvania, and with his brother in 1852 opened a shop in South Bend to build wagons under the firm name of H. & C. Studebaker.

Mr. J. T. K. Hayward, a prominent figure in railroad circles of the West, died in Chicago, Ill., on Nov. 19. Mr. Hayward was born in Plainfield, Mass., in 1819. He studied engineering and engaged with different roads in New England after graduating. In 1857 he moved to Missouri and superintended the completion of the Hannibal & St. Joseph R. R., later becoming General Manager, which position he held until 1866. He assisted in building part of the Wabash R. R., the Missouri, Kansas & Texas, St. Louis & Hannibal, St. Louis, Keokuk & Northwestern, and started the Missouri, Kansas & Eastern R. R.

Mr. Arthur W. Soper, President of the Pintsch Compressing Co., and of the Safety Car Heating & Lighting Co., died Dec. 1 at his home in New York city, after a month's illness from stomach troubles. Mr. Soper was born in Rome, N. Y., in 1838. He entered the employ of the Rome, Watertown & Ogdensburg R. R. in 1858, and after becoming Assistant Superintendent of that company in 1871, he left to accept a similar position with the St. Louis, Iron Mountain & Southern R. R. A year later he became Superintendent of the last-named road and was afterward made General Superintendent and then General Manager.

## ENGINEERING SOCIETIES.

### COMING MEETINGS.

AMERICAN ECONOMIC ASSOCIATION.
Dec. 27 to 30. Fourteenth annual convention at Washington, D. C. Acting-Secy., Frank A. Fetter, Cornell University, Ithaca, N. Y.

MINING ENGINEERING SOCIETY.
Jan. 7, 8 and 9, 1902. Annual meeting, Grand Rapids, Mich. Secy., F. Hodgman, Climax, Mich.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Jan. 15, 1902. Annual meeting at New York city.

ROADMASTERS' & MAINTENANCE OF WAY ASSOCIATION.—The executive committee of this association will meet at the Sherman House, Chicago, on Dec. 13 and 14 to plan the work of the next annual meeting. The latter will be held in Milwaukee some time in September, 1902. I. O. Walker, Pres., Paducah, Ky.

ENGINEERS' CLUB OF ST. LOUIS.—The club held its 533d meeting at 1600 Locust St., on Nov. 20, 1901. A paper was read by Mr. R. H. Phillips on the subject "Quicksands." The character of quicksands was brought out and the methods of dealing with it were explained. The paper was discussed by Messrs. Barwick, Van Ornum, Colby, Wall, Ferguson, Ritzman and Johnson.

ENGINEERS' CLUB OF PHILADELPHIA.—At the meeting of Nov. 16, 1901, Mr. W. C. L. Eglin presented a paper on "The Economical Conversion and Transmission of Energy." The speaker gave a general discussion of the subject leading up to the advocacy of electric transmission and utilization of energy. Following this paper, Mr. L. Y. Schermerhorn described the dial-tide indicators of the U. S. Coast & Geodetic Survey in New York, San Francisco, and Delaware Bays; he also described other tide indicators. The paper was illustrated by lantern slides. The discussion was taken part in by Messrs. Carl Hering, H. Leffmann, J. Christie and others. The annual meeting of the society will be held on Dec. 7 at 8 p. m. Officers will be elected for the coming year. An illustrated paper will be read by Mr. Geo. S. Webster on "The Development of the Delaware River Water Front of Philadelphia, including a description of Bulkhead, Street and Pier Construction." L. F. Rondinella, Secy., 1122 Girard St., Philadelphia.

## TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

GEARING.—The Dayton Globe Iron Works Co., Dayton, O. Paper, 5 x 8 ins.; pp. 48; illustrated.

This is a stock list of the company, showing sizes of gears of all kinds which they can make. Prices are given.

AIR PUMPS AND JET CONDENSERS.—Dean Bros. Steam Pump Works, Indianapolis, Ind. Paper; 6 x 7 ins.; pp. 12; illustrated.

A variety of air pumps and jet condensers, mostly vertical, are described in this handsome catalogue.

SPRAYING AND OTHER PUMPS.—The Goulds Mfg. Co., Seneca Falls, N. Y. Paper; 8 x 7 ins.; pp. 8; illustrated.

Spraying pumps operated by hand and also by gasoline engines are described in this pamphlet. Other power force pumps are also included.

STEAM PUMPS.—The Reliance Machine & Tool Works, St. Louis, Mo. Paper; 3 x 5 ins.; pp. 32; illustrations and tables.

This booklet is chiefly devoted to Hooker steam pumps of various sorts and for different classes of service. Air compressors and hydraulic machinery are listed, also.

SHEARING MACHINES.—Bertsch & Co., Cambridge City, Ind. Paper; 6 x 9¼ ins.; pp. 8; illustrated.

Various forms of machines are shown for different classes of work, including steam shears (with long lever arm operated directly by the steam cylinder), hydraulic shear and bending machine, hand and treadle and engine shears, boiler plate bending rolls, etc.

CREMATORIES.—Garbage & Excrement Crematory Co., Prudential Bldg., Buffalo, N. Y. Paper; 3 x 6 ins.; pp. 8; illustrated.

Portable and other crematories for military camps, barracks, and various institutions are described in this folder. Some of these crematories have been mounted on wagons and used by the New York National Guard to displace earth closets.

ELECTROLYSIS.—A. A. Knudson, 34 Nassau St., New York city. Paper; 4 x 6 ins.; pp. 4.

Under the heading "Pointers, or First Aid to the Injured," the author suggests the desirability of investigations relating to the electrolysis of underground pipes and places his services at the disposal of all those who are convinced of the soundness of his suggestions. There is a brief list of articles and reports on electrolysis.

PUMPING MACHINERY.—S. W. Luitwieler Co., Los Angeles, Cal. Paper; 8 x 7 ins.; pp. 28; illustrated.

This catalogue describes a class of deep well pumping machinery which has been given the trade name "Triumph" and is said to be especially adapted to irrigation, mining, railroad, brewery and public water-works service. The pump piston rods are operated by yokes, moved vertically by cams rotating within the yokes and moving the latter up and down on polished steel guide rods.

LOCOMOTIVE COALING STATIONS.—The Brown Hoisting Machinery Co., Cleveland, O. Paper; 12 x 9 ins.; pp. 19; illustrated.

This publication describes entirely new methods of coaling locomotives, as originated by this company, and shows views of plants of the "Brown hoist" type now in use. The ordinary plant includes an elevated metallic storage bin; a special hoisting engine; automatic dumping-tubs, for handling both coal and ashes; an ash-pit, under the tracks, etc. One man controls all of this apparatus, and he can handle from 50 to 100 one-ton tubs per hour. The plant is economical and compact.

## CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

| Bids to be opened | Work. | Place. | See Eng. News. |
|---|---|---|---|
| Dec. 5. | Dam, | Webb, N. Y. | Nov. 28 |
| Dec. 5. | Sewers, | Fort Wayne, Ind. | Nov. 28 |
| Dec. 5. | Bridges, | Fairbury, Neb. | Nov. 28 |
| Dec. 5. | Power station, | Gloversville, N. Y. | Nov. 28 |
| Dec. 5. | Bridge, | New York, N. Y. | Nov. 28 |
| Dec. 5. | Bridge, | Buffalo, N. Y. | Nov. 28 |
| Dec. 5. | Gravel roads (13 miles), | Indianapolis, Ind. | Nov. 21 |
| Dec. 5. | Box lockers (5,000), | Jeffersonville, Ind. | Nov. 14 |
| Dec. 6. | Dry-dock, etc., | Hull, England. | Nov. 7 |
| Dec. 6. | University building, | Norman, Okla. Ter. | Nov. 21 |
| Dec. 6. | Sewage pumping engines (4), | Chicago, Ill. | Nov. 21 |
| | Advertised, Engineering News, Nov. 21. | | |
| Dec. 6. | Paving, etc., | Cincinnati, O. | Nov. 21 |
| Dec. 6. | Paving, | Buffalo, N. Y. | Nov. 28 |
| Dec. 6. | Paving, etc., | New York, N. Y. | Nov. 28 |
| Dec. 7. | Bridge, | Cincinnati, O. | Nov. 21 |
| Dec. 7. | Water-works, | Arthur, Ill. | Nov. 28 |
| Dec. 7. | Electric lighting, | Seattle, Wash. | Nov. 21 |
| Dec. 7. | Wrought-iron bridge, | Cincinnati, O. | Nov. 21 |
| Dec. 7. | Quay wall, | Washington, D. C. | Nov. 14 |
| Dec. 7. | Mill, etc., | Alton, Ill. | Dec. 5 |
| Dec. 7. | Bridges (9), | Greenfield, Ind. | Dec. 5 |
| Dec. 9. | Ball-joint water pipe, | Atlantic City, N. J. | Nov. 21 |
| | Advertised, Eng. News, Nov. 21 and 28. | | |
| Dec. 9. | Garbage crematory, | Newport News, Va. | Nov. 21 |
| Dec. 9. | Telephone franchise, | Los Angeles, Cal. | Nov. 21 |
| Dec. 9. | Drill hall, etc., | Troy, N. Y. | Nov. 28 |
| Dec. 9. | Water-works, | Ft. Washington, Md. | Nov. 28 |
| | Advertised, Eng. News, Nov. 28 and Dec. 5. | | |
| Dec. 9. | Dynamo, engine, etc., | Pittsburg, Pa. | Dec. 5 |
| Dec. 10. | Bridge, etc., | New Brunswick, N. J. | Dec. 5 |
| Dec. 10. | Sewers, | Huntington, Ind. | Dec. 5 |
| Dec. 10. | School, | Austin, Tex. | Dec. 5 |
| Dec. 10. | Courthouse, | Fort Smith, Ark. | Dec. 5 |
| Dec. 10. | Pipe, valves, etc., | Baltimore, Md. | Dec. 5 |
| Dec. 10. | Water-works, | Riverdale, Ill. | Nov. 28 |
| Dec. 10. | Sewerage system (7 mis.), | New Castle, Ind. | Nov. 28 |
| Dec. 10. | Water supply, | Wilmington, O. | Nov. 14 |
| | Advertised, Eng. News, Nov. 14 and 21. | | |
| Dec. 11. | Orphanage, | Mason City, Ia. | Nov. 21 |
| Dec. 11. | Removing, etc., garbage, etc., | Cincinnati. | Nov. 28 |
| Dec. 11. | Removal, etc., dead animals, | Cincinnati, O. | Nov. 28 |
| Dec. 11. | Paving, etc., | Hoboken, N. J. | Nov. 28 |
| Dec. 11. | City hall, | Bridgeport, Conn. | Nov. 28 |
| Dec. 11. | Hospital, | Polk, Pa. | Dec. 5 |
| Dec. 11. | Sewers, | New York, N. Y. | Dec. 5 |
| Dec. 12. | Garbage crematory, | Dallas, Tex. | Nov. 21 |
| | Advertised, Eng. News, Nov. 21 and 28. | | |
| Dec. 12. | School, | Pittsburg, Kan. | Nov. 21 |
| Dec. 12. | Beacon, | Galveston Bay, Tex. | Nov. 14 |
| | Advertised, Eng. News, Nov. 14 and 21. | | |
| Dec. 12. | Electric plant, | Wilmington, O. | Nov. 14 |
| | Advertised, Eng. News, Nov. 14 and 21. | | |
| Dec. 12. | Bridge, | Saginaw, Mich. | Oct. 31 |
| Dec. 12. | Water-works, | Hattiesburg, Miss. | Nov. 28 |
| Dec. 12. | Grading, | Janesville, Wis. | Dec. 5 |
| Dec. 12. | Bridge supplies, | New York, N. Y. | Dec. 5 |
| Dec. 12. | Pumping engine, | Fort Wayne, Ind. | Dec. 5 |
| Dec. 13. | Paving, | New York, N. Y. | Dec. 5 |
| Dec. 13. | Paving maintenance, | St. Louis, Mo. | Dec. 5 |
| Dec. 13. | Bridge, | West Bay City, Mich. | Nov. 28 |
| Dec. 13. | Bridge superstructure, | Covington, Ind. | Nov. 28 |
| Dec. 14. | Sewers (3 miles), | Seattle, Wash. | Nov. 28 |
| Dec. 14. | Bridges, | Vincennes, Ind. | Nov. 28 |
| Dec. 14. | Bridges (2), | Des Moines, Ia. | Nov. 14 |
| | Advertised, Eng. News, Nov. 14 and 21. | | |
| Dec. 14. | Paving, | Newport News, Va. | Nov. 21 |
| | Advertised, Eng. News, Nov. 21 to Dec. 5. | | |
| Dec. 14. | Road improvement, etc., | Cincinnati, O. | Nov. 21 |
| Dec. 14. | Bridge, | Edina, Mo. | Dec. 5 |
| Dec. 14. | Generating plant, | Washington, D. C. | Dec. 5 |
| | Advertised, Engineering News, Dec. 5. | | |
| Dec. 15. | Machine shop, | Niagara Falls, Ont. | Dec. 5 |
| Dec. 16. | Buildings, | New Haven, Pa. | Dec. 5 |
| | Advertised, Engineering News, Dec. 5. | | |
| Dec. 16. | Sewer, | New Albany, Ind. | Dec. 5 |
| Dec. 16. | Water-works, | Trinidad, Colo. | Nov. 21 |
| | Advertised, Eng. News, Nov. 21 and 28. | | |
| Dec. 16. | Light-house, | Baltimore, Md. | Nov. 21 |
| | Advertised, Engineering News, Nov. 21. | | |
| Dec. 16. | School, | San Marcos, Tex. | Nov. 21 |
| Dec. 16. | Railway viaduct, | Ireland | Nov. 7 |
| Dec. 16. | Garbage crematory, | Newport News, Va. | Nov. 28 |
| Dec. 16. | Bridge, | Boise, Idaho | Nov. 28 |
| Dec. 16. | Bridge pier and approaches, | Kenosha, Wis. | Nov. 28 |
| Dec. 16. | Sewerage system, etc., | Washington, D. C. | Nov. 28 |
| Dec. 16. | Lock gates, | Cincinnati, O. | Nov. 28 |
| Dec. 17. | Bridge, | Saginaw, Mich. | Nov. 28 |
| Dec. 17. | Library, | Mankato, Minn. | Nov. 28 |
| Dec. 17. | Pumping plant, | New York, N. Y. | Oct. 24 |
| Dec. 17. | P. O. building, | Creston, Ia. | Nov. 14 |
| Dec. 17. | Paving, etc., | Hoboken, N. J. | Dec. 5 |
| Dec. 17. | Sewers, | Marion, Ind. | Dec. 5 |
| Dec. 17. | Wharf, | Montreal, Que. | Dec. 5 |
| Dec. 17. | Water bonds, | Florence, S. C. | Dec. 5 |
| Dec. 18. | Electric lighting, | Cleveland, O. | Dec. 5 |
| Dec. 18. | Filter plants, | Philadelphia, Pa. | Nov. 14 |
| Dec. 18. | Reservoirs, etc., | Philadelphia | Nov. 14 |
| Dec. 19. | Armory, | Springfield, Ill. | Dec. 5 |
| Dec. 19. | Paving, | Nashville, Tenn. | Dec. 5 |
| | Advertised, Eng. News, Dec. 5 and 12. | | |
| Dec. 19. | Cement, | Washington, D. C. | Dec. 5 |
| | Advertised, Engineering News, Dec. 5. | | |
| Dec. 19. | Sewer, | Nashville, Tenn. | Dec. 5 |
| | Advertised, Eng. News, Dec. 5 and 12. | | |
| Dec. 20. | Viaduct superstructure, | Buffalo, N. Y. | Dec. 5 |
| | Advertised, Eng. News, Dec. 5 and 12. | | |
| Dec. 20. | River work, | Utica, N. Y. | Dec. 5 |
| | Advertised, Eng. News, Dec. 5 and 12. | | |
| Dec. 20. | Water bonds, | Houma, La. | Nov. 21 |
| Dec. 20. | Court house, | Des Moines, Ia. | Nov. 21 |
| Dec. 20. | Portable wall telephones, | Washington, D.C. | Nov. 28 |
| Dec. 20. | Paving, | Houston, Tex. | Nov. 28 |
| Dec. 20. | Bridge, | Memphis, Tenn. | Nov. 28 |
| Dec. 20. | Church, | Carbondale, Ill. | Nov. 28 |
| Dec. 21. | Street improvements, | Cincinnati, O. | Nov. 28 |
| Dec. 21. | Bridge supr. and aprchs, | Cincinnati, O. | Nov. 28 |
| Dec. 21. | Water mains, | New York, N. Y. | Nov 28 |
| Dec. 21. | Coaling plant, | Washington, D. C. | Nov. 7 |
| Dec. 21. | Light-house tender, | Baltimore, Md. | Dec. 5 |
| | Advertised, Engineering News, Dec. 5. | | |
| Dec. 23. | Electric light franchise, | San Leandro, Cal. | Nov. 21 |

## RAILWAYS.

BALTIMORE & OHIO SOUTHWESTERN.—Mr. I. G. Rawn, Gen. Supt., writes us that this road has recently completed two new freight stations at East St. Louis, Ill. The inbound house is 80 × 602 ft. and the outbound house 30 × 602 ft., with six tracks and five inland platforms between the houses.

BISMARCK, WASHBURN & GREAT FALLS.—W. D. Washburn, Pres., Minneapolis, Minn., has announced that an extension will be built next year to Coal Harbor, a trading post on the east side of the Missouri River, 25 miles north of Washburn, Minn., the present terminus of the road. Work on the extension will be started early next spring, and will be completed in time to move the crops next fall.

CANADIAN PACIFIC.—President Shaughnessy is quoted as follows regarding extensions of the system: "Canadian Pacific has no important extension in prospect. We built 300 miles of new line this year and will probably construct about the same amount next year. Canadian Pacific has no intention of building a Hudson Bay line. I do not think that the present generation will see such a line built."

CAPE GIRARDEAU & NORTHERN.—E. F. Blomeyer, Cape Girardeau, Mo., writes that contracts for building this road will be let at once. The construction capital is secured, 50% of the right of way is obtained and the surveys made for 30% of the distance. The line will run from Wittenberg to St. Mary's and Ste. Genevieve, Mo. Newman Erb, Pres., 66 Broadway, New York; S. E. Coombs, Ch. Engr., Cape Girardeau.

CAROLINA NORTHERN.—This road is now completed from Lumberton, N. C., to Marion, a distance of 36 miles, and it is the purpose of the management of extending it to Georgetown, a distance of 50 miles. T. C. McNeely, Gen. Supt., Lumberton.

CENTRAL VALLEY R. R.—This company is reported to have been incorporated in Ohio for the purpose of building a steam road from New Cumberland to New Philadelphia. F. H. Goff, Reuben Hitchcock and W. F. Carr are incorporators.

CHARLESTON, AUGUSTA & CHATTANOOGA.—The city council of Charleston, S. C., has granted an extension of time to the company to build into this city, conditioned upon the actual beginning of work by March 1, 1902.

COLORADO FUEL & IRON CO.—A survey is being made down the North Fork of the Gunnison River in Colorado, which is believed to be in the interest of this road.

EAST KOOTENAY RY.—Messrs. Mackenzie & Mann, of Toronto, Ont., are arranging with the government of British Columbia for the construction of this line from Hope to Midway, B. C., where the Canadian Pacific and Great Northern roads both terminate. A route has been surveyed through the mountains from Hope to Princeton and thence to Midway.

GREENBRIER & GAULEY RIVER.—A charter has been issued to this company in West Virginia to build and operate a railroad from Pocahontas county to the mouth of the Gauley River, in Fraser county. Preston S. Warn, Samuel A. Kendall and N. C. McNeil, of Pocahontas, W. Va., are interested.

INDIAN HARBOR R. R.—This company has been incorporated in Indiana, with a capital stock of $250,000, for the purpose of building a road from Indiana Harbor, a new town on Lake Michigan, east of Chicago, to the Joliet & Northern Indiana R. R., a distance of 12 miles. The following are directors of the company: C. W. Hotchkiss, C. R. Francis, Chicago; James Miles, Riverside, Ill.

KENTUCKY SOUTHERN.—Amended articles of incorporation have been filed by this company, which is to build a line 35 miles long from some points on the L. & N. near the mouth of the Little Rockcastle River along the river and near the lines of Laurel, Rockcastle and Pulaski counties to the Cumberland River. L. F. Hubble and R. E. McRoberts, Lancaster, Ky., and J. D. Smith, London, Ky., are interested.

LOUISVILLE & NASHVILLE.—Surveyors are at work between Calera and Birmingham, Ala., preparatory to doubling the track between these points. The distance is 33 miles and much of the road is over hills and across trestles. The improvements will be of an expensive nature. R. Montfort, Ch. Engr., Louisville, Ky.

MAINE CENTRAL.—Thos. L. Dunn, Ch. Engr., Portland, Me., informs us that the extension from Augusta to Winthrop, 14.35 miles, is located subject to revision. No rights have as yet been procured, and at present it is not known that the line will be built.

MANITOULIN & NORTH SHORE.—T. J. Kennedy, Gen. Supt. Sault Ste. Marie, Ont., informs us that contracts will be let within a month for building 16½ miles of road for this company. The road will pass through the townships of Baldwin, Merritt and Whitefish Indian Reservation, and will form a part of the line already built from Sudbury to Gertrude and Elsie Mines. The surveys have been completed and the rights of way and construction capital secured. F. H. Clerque, Pres.; W. Z. Earle, Ch. Engr., Sault Ste. Marie.

MOBILE, JACKSON & KANSAS CITY.—Frank B. Merrill, Pres., Mobile, Ala., is quoted as follows: "Arrangements have been made and completed for the purchase of the Kingston & Central Mississippi R. R., and the Mobile, Jackson & Kansas City R. R. will now build north from a point near Augusta, Miss., and intersect the Kingston & Mississippi Central R. R. at Laurel and extend its line to Memphis. The financial arrangements for building this road have been completed and contracts for the work will be awarded within the next 30 days. The improvements at the terminals at Mobile, which have been started, will be finished as soon as a decision is reached in the ejectment suit of the city of Mobile against the Mobile, Jackson & Kansas City R. R. Shops will be erected at the terminals at Frascati for the building and repairing of cars and other equipment, the shops having a capacity for building 10 freight cars per day. This means much for Mobile. Over $300,000 will be spent in this city by the road within the next few months. Docks of large capacity will be built, besides opening up a new trunk line to the West, which will furnish a new trade to Mobile. This extension will open up 200 miles of almost virgin timber lands, and also brings Mobile in direct connection with the delta and prairie lands of North Mississippi, a great cotton growing country."

NEBRASKA.—Articles of incorporation have been filed by a company, already incorporated under the laws of New Jersey, in Nebraska. The company proposes to build a line of railway from Verdigris, Neb., to Fort Pierre, S. Dak. The incorporators are E. A. Houston, George L. Adams, Niobrara; John R. Kaucher, Reading, Pa., and Wm. S. Lambert, Philadelphia.

NORRISTOWN MAIN LINE CONNECTING R. R.—A charter has been taken out in Pennsylvania by the Philadelphia & Reading R. R. for this line, to be 3,900 ft. in length, of which 1,600 ft. will be bridges. The line will start from a point near Cherry St., Norristown, Pa., cross the Schuylkill River on a bridge and connect with the main line of the P. & R. road about one mile north of the Bridgeport station.

PENNSYLVANIA R. R.—The company is reported to have had plans prepared for extensive improvements on the Western New York & Pennsylvania Division. It is understood that the high grades east of Buffalo, N. Y., are to be reduced and in some instances tunnels are to be constructed and a general change of the line made. A number of sharp curves are to be straightened and much money is to be devoted to lengthening sidings and building new terminals where increased business warrants. The company's yards near Buffalo will be rearranged to facilitate the quick handling of business at the different points. There is also to be a consolidation of repair shops and the number is to be reduced. W. H. Brown, Ch. Engr., Philadelphia.

PITTSBURG, CINCINNATI, CHICAGO & ST. LOUIS.—The board of directors at their meeting on Nov. 28 authorized the expenditure of $1,500,000 on improvements, additional tracks and new bridges. Among the improvements ordered was the rebuilding of the bridge known as No. 1 over the Monongahela River at a cost of $300,000. This work will be done by the American Bridge Co. It is also agreed to erect a passenger station at Indianapolis, Ind., to cost $100,000, and to build a large freight yard in that city. Improvements to the freight yards at Chicago will be made and the bridge at Indianapolis, spanning the Whitewater River, will be rebuilt.——It is reported that contracts have been let for the grading of the proposed extension of the New Cumberland branch from its present terminus at Chester, W. Va., to Monaca, Pa. It is expected that the line will be completed and ready for operation by December, 1902. The successful contractors were Thomas McNally and Booth & Flinn, both of Pittsburg. Work is to be started by April 1, 1902.

PITTSBURG & LAKE ERIE.—A conference was recently held by the officials of this company, when, it is said, it was finally decided to build four tracks the entire length of the road. Plans have been prepared with this object in view and all the necessary arrangements have been made. J. A. Atwood, Ch. Engr., Pittsburg, Pa.

SANILAC RY.—This company has been organized with a capital stock of $56,000 to construct a line of railway from Carsonville to Sanilac Center, a distance of seven miles.

TEXAS & PACIFIC.—This company has track laid on the extension from New Roads, La., to Vidalia, Ga., as far as the mouth of Red River, 30 miles, and grading is in progress from Red River to Vidalia. The Missouri Valley Bridge & Iron Works has the contract for the bridge across the mouth of the Red River. H. P. Mobberly, Asst. Engr., Black Hawk, La.

TORONTO, LINDSAY & PEMBROKE.—The Public Works Department has given approval of an eight-mile extension from Bancroft, Ont., through the townships of Herschel, Monteagle and Faraday in Hastings county.

VIRGINIAS & SOUTHERN.—This company has been incorporated for the purpose of building a road from Parkersburg, W. Va., to Newport News, Va. The principal office will be at Clarksburg, W. Va. Chas. W. Lynch, Peter I. Lynch and George C. McKinley are incorporators.

WHEELING & LAKE ERIE.—Plans are now in the course of preparation in the office of the chief engineer at Cleveland, O., for a large yard and new repair shops at Navarre.

## STREET AND ELECTRIC RAILWAYS.

ALBANY, N. Y.—The Kingston Consolidated R. R. has received permission from the railroad commissioners to issue a mortgage for $700,000 and for an increase in its capital stock from $250,000 to $400,000. The company will employ the increased capital stock in the purchase of the Kingston City road, and for new construction.

NEW YORK, N. Y.—Jacob L. Greatsinger, Pres. Brooklyn Rapid Transit Co., is said to be planning to build a connecting line from the Brooklyn Bridge to the New East River Bridge, in Manhattan. The proposed improvement would cost about $2,000,000.

SCHENECTADY, N. Y.—The Railroad Commissioners have authorized the Schenectady Ry. Co. to issue a mortgage for $1,500,000, the proceeds of which will be used in constructing extensions to Troy, Scotia and other places.

SEA CLIFF (L. I.), N. Y.—The Taxpayers' Association of this village is now discussing the proposition and prospects of an electric railway from the Long Island R. R. depot to the village.

STILLWATER, N. Y.—The rights of way for the line of the Keeseville, Ausable Chasm & Lake Champlain R. R. has been secured between Keeseville and Lake Placid. The route will follow the highway as far as possible. E. K. Baber, Pres.; Geo. N. Kingsland, Gen. Mgr.

BURLINGTON, N. J.—The Pennsylvania R. R. Co. has given notice of the formal abandonment of the trolley service between Mount Holly and this place. The power house at Mount Holly was burned several weeks ago and will not be rebuilt. Steam power will be adopted.

WILMINGTON, DEL.—Work will be started in a few days on the extension of the line of the People's Ry. Co., which will be run from Brandywine Springs, the present terminus, to Kennett Square and Unionville. The extension will be 14 miles long and will reach a population of 23,000.

MOBILE, ALA.—George L. Leatherbury, Jr., of Mobile, representing a syndicate of Troy, N. Y., parties, is petitioning for a franchise for an electric road in this city.

DANVILLE, KY.—The Danville Electric Power & Ry. Co. has filed articles of incorporation, having a capital stock of $100,000, to build a road connecting this place with the L. & N. at Junction City., a distance of eight miles. The work of securing the rights of way and franchises has been under way for some time. George F. Anderson, C. R. McDowell and A. B. Robertson, Danville, are interested.

LEXINGTON, KY.—The surveys for the Paris, Millersburg & Lexington Electric R. R. has been started, and all preliminaries are being put in shape so that actual construction may be started about February.

BATAVIA, O.—The Cincinnati, Georgetown & Portsmouth Ry. has decided upon a site for the power station at Olive Branch.

COLUMBUS, O.—The Mt. Vernon, Mt. Gilead & Western R. R. has been incorporated with a capital stock of $10,000 by John W. Barry, Ulysses G. Denman, C. D. Smiley and others. The company proposes building and operating an electric railway from Mt. Vernon, as its easterly terminus, westerly through the counties of Knox, Morrow and Marion to the city of Marion, its western terminus, with a branch running north from Mt. Gilead through Morrow and Crawford counties, to Galion, and another running south from Mt. Gilead through Morrow and Delaware counties, to Delaware City.

FOSTORIA, O.—The Ohio Northwestern Ry., organized some months ago for the purpose of building an electric railway from this city to Mungen, has increased its capital stock to $500,000.

MARION, O.—The Columbus, Marion, Tiffin & Toledo Electric Ry. has been organized at Nevada with C. W. Stoltz, of Marion, Pres.; H. B. Hane, Marion, Secy., and C. E. Sawyer, Marion, Treas. The proposed road will run from Marion to Tiffin, thus connecting Columbus and Toledo. Of the 38 miles of right of way, 34 have been secured.

TOLEDO, O.—The plans of the Toledo Ry. & Terminal Co. contemplate an elevated belt line steam road through the heart of the city.

VERMILLION, O.—The Vermillion, Mansfield & Southern Ry. has been incorporated with a capital stock of $10,000. It is the purpose of the company to build an electric line from this city through Erie, Huron, Ashland and Richland counties to Mansfield, with municipal systems in the terminal cities. E. L. Coen, R. F. Quigley and C. C. Baumbert are incorporators.

NEWCASTLE, IND.—Chas. S. Hemly, Vice-Pres. and Mgr. Newcastle, Cadiz, Markleville, Pendleton & Western R. R., Newcastle, informs us that the right of way is secured and the surveys completed for the company's line. The construction capital is not secured and contracts will not be let until it is obtained. The road will pass through the towns named and will be 21 miles in length. Electricity will be used. R. H. Cooper, Pres., Cadiz, Ind.; Daniel K. Cook, Ch. Engr., Newcastle. The general offices will be at Newcastle.

SOUTH BEND, IND.—W. Osgood Orton, Pres., informs us that the surveys are completed and the rights of way mostly secured for the electric line of the Chicago & Indiana Air Line Ry. Co., which will run from Chicago to East Chicago, Michigan City, New Carlisle and South Bend. The construction capital is nearly all secured and contracts will be let around Feb. 1. The line will be 70 miles long and operated by electricity. F. E. Gribben, Ch. Engr., Cleveland, O.

ALLEGAN, MICH.—M. Van Harlingen, Ch. Engr., Grand Rapids, Kalamazoo & South Haven Traction Co., Allegan, informs us that the location has been completed to Allegan and the right of way obtained for the entire distance. The contract for building the line, which will be about 110 miles in length, has been let to the Equitable Construction Co., Allegan, Mich., and Philadelphia, Pa. The construction will be started early next year. This line will be operated by electricity and will touch at the following places: Grand Rapids, Byron, Dorr, Allegan, Otsego, Plainwell, Kalamazoo, Casco, Lee and South Haven. J. J. Patterson, Pres., Philadelphia.

FLINT, MICH.—E. O. Wood, of this place, informs us that bids are wanted for the construction of an electric railway, 11 miles long, from Flint to Flushing, over a perfectly level road. All rights of way are secured. The road will be built by local capital.

CHICAGO, ILL.—The Galesburg & Oneida Electric Ry. Co., of Galesburg, has filed articles of incorporation, capitalized at $40,000. The incorporators are F. W. Emory, A. N. Lindsey and H. C. Lucas.

MADISON, WIS.—A company has been incorporated here for the purpose of building an electric railway with terminals at Green Bay, Appleton and Wausau. The company will be known as the Shawano, Green Bay & Interurban R. R., and will be capitalized at $100,000. The headquarters will be at Shawano. H. G. Dreier, Louis Rollman and John Black are interested.

MILWAUKEE, WIS.—The Milwaukee & Geneva St. Ry. has been incorporated by Geo. W. Peck, W. H. Churchill and John F. Donovan. Engineers are now at work surveying the route. The capital stock is $25,000.

MINNEAPOLIS, MINN.—Local papers state that Thomas Lowry, Pres. Twin City Rapid Transit Co., has announced that the third line between this city and St. Paul will probably be built next year.

SIOUX FALLS, S. DAK.—Press reports state that the contract for the construction of the proposed electric railway between this city and Madison has been awarded to George F. Buck and Capt. E. Hill, Eastern men. The contract covers that part of the road between this city and Colton.

KANSAS CITY, MO.—The directors of the Kansas City & Olathe Electric Ry. have approved the contracts awarded by L. Odom, Mgr., for grading two additional miles of roadbed. Two miles of the route between Shawnee Mission and Merriam is already graded and the contracts approved will complete the grading from Shawnee Mission to the Wyandotte-Johnson county line. The next contract to be let will be for the grading between Rosedale and the county line. Negotiations are in progress for rails for the sections built. F. C. Goodwin, Pres.; J. C. Beedy, Vice-Pres.; L. H. Hansburger, Secy.

ST. JOSEPH, MO.—The Union Terminal Co. has filed articles of incorporation with a capital stock of $500,000. Its purpose is to construct a double track railway down the river bank and across certain streets from Francis St. to the stockyards. Work will be commenced on the road immediately and be pushed to completion as rapidly as the weather will permit. G. F. Swift, Chicago; John Donovan and John E. Dolman, St. Joseph, are interested.

AUSTIN, TEX.—C. P. Scrivener, Civil and Mining Engineer, 704 Congress Ave., Austin, would like to communicate with parties who could give him the approximate cost of building and equipping 20 miles of standard gage electric road with power houses and stations, etc. The road has no grades.

SEATTLE, WASH.—The Seattle Electric Co. is making preliminary surveys for a street car line to connect this city and West Seattle. General Manager Dickinson has stated that the extension may not be built at once.

JOSEPH, ORE.—The incorporation of the Joseph Electric R. R. Co. has been announced. The new line will run between Joseph and Elgin. F. D. McCully, C. E. Jennings and Geo. Mack are incorporators.

CORNWALL, ONT.—J. E. Hamilton, U. S. Commercial Agent at this place, writes us that a corporation has been formed, composed of five capitalists, three from the United States and two from Canada, to build and equip a road from Toronto to Cornwall, with a branch from Brockville to Ottawa, and will at the next session of Parliament apply for a charter. Preliminary surveys have been made.

## ELECTRIC LIGHT AND POWER.

BOSTON, MASS.—Local papers state that the Edison Electric Illuminating Co. will soon issue $1,500,000 worth of new stock for making extensions to its system, putting wires underground, etc.

CAMDEN, N. Y.—An election will be held Dec. 10 to vote on the question if issuing $18,000 in bonds for an electric plant.

HANCOCK, N. Y.—A 10-year contract for public lighting has been made with the Deposit Electric Co., who will improve its plant, according to reports.

HOLLEY, N. Y.—At a special election Nov. 26 it was voted to issue bonds not to exceed $15,000, for the construction of a municipal electric light plant.

NEW YORK, N. Y.—Bids are asked by the department of public buildings, 21 Park Row, Manhattan, until Dec. 11 for lighting the streets, public buildings,, etc., for a term of one year from Jan. 1.

LAWRENCEVILLE, N. J.—The question of better public lighting is being considered. Address N. H. Furman, H. W. Green and Prof. A. F. Jamieson.

McKEESPORT, PA.—Reports state that the contract with the Monongahela Electric Light Co. for lighting this city expires in June. Councils, it is stated, have decided to ask for bids for the purchase of $150,000 of bonds for the proposed municipal electric plant.

PITTSBURG, PA.—Bids are asked until Dec. 9 for furnishing a 115 to 125-HP. engine, a 75-K-W. 1,200-light dynamo and a switchboard. W. E. Thompson, County Controller.

RANKIN, PA.—The American Steel & Wire Co. proposes to build an electric plant at its new mills to have a capacity for 2,000 incandescent and 300 arc lights.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until Dec. 14 for furnishing and installing a steam generating plant at the Trumbull St. pumping station, as stated in our advertising columns.

AUGUSTA, GA.—Stewart Phinizy has been granted a franchise to erect overhead electric wires in this city.

DAHLONEGA, GA.—The North Georgia Electric Co. has made application for the amendment of its charter so that it may have the privilege of increasing its capital stock to a sum not exceeding $5,000,000.

SAVANNAH, GA.—Press reports state that a new electric company is to be formed here. The company will be known as the Savannah Electric Co. and the Edison Illuminating Co. is to be consolidated with it. The new company is said to be bonded for $7,000,000.

HAZLEHURST, MISS.—Coleman & Malochee, 121 Carondelet St. New Orleans, La., have been engaged to prepare plans for an electric plant and wafer-works, to cost about $35,000.

ROCKWOOD, TENN.—This place has voted to issue $6,000 in bonds for an electric plant.

COVINGTON, KY.—The council is considering the question of the municipal ownership of the electric plant.

CINCINNATI, O.—The Cincinnati Gas & Electric Co. is preparing plans for doubling the capacity of its plant. Contracts for the machinery, etc., will soon be let. There will be wanted a 3,000-HP. generator, etc. N. G. Kenan, Vice-Pres.; W. F. White, Mgr.

CLEVELAND, O.—Bids are asked until Dec. 18 for furnishing 978 electric lamps for one year. Charles P. Salen, Dir. Pub. Wks.

COLUMBUS, O.—Local papers state that options have already been secured on a majority of the stock of the Columbus Electric Light & Power Co., by the Mandlebaum-Pomeroy syndicate, which proposes to secure an electric line and power plants between Cleveland and Cincinnati, by way of Columbus.

HUBBARD, O.—W. H. Davis, Mayor, writes us that this place has voted against issuing bonds for an electric plant.

WARREN, O.—Reports state that C. H. Struble, 707 Pittsburg, Bank for Savings Bldg., Pittsburg, Pa., is reported to have secured franchises for gas mains in Struthers, Youngstown,Girard, Niles and Warren. The plants, etc., will cost about $1,000,000.

PATOKA, IND.—Citizens of this place have agreed to donate a site for the prospective power house of the Richmond Traction Co.

BOYNE CITY, MICH.—A 30-year franchise for street and commercial electric lighting has been given to W. H. White & Co. The council also let the contract for lighting the streets to that company.

DETROIT, MICH.—It is reported that Simon J. Murphy is to build a modern 6-story power building on Congress St. Donaldson & Meier, Archs., are preparing the plans.

DOWAGIAC, MICH.—Earl B. Hawks, of Ann Arbor, Mich., and Chas. T. Anderson, of this city, have been granted a 30-year franchise for a gas plant of 30,000,000 cu. ft. capacity. A company with a capital of $50,000 will be incorporated.

PETOSKEY, MICH.—The Petoskey, Bay View & Northern Gas Co., recently incorporated with a capital of $200,000, has been granted a franchise, and is reported as making arrangements for constructing the proposed gas plants to furnish gas to Bay View Harbor, Springs, Harbor Point, etc. Wm. A. Smith, Pres., Smith Block, Grand Rapids, Mich.; M. C. Haggett, Secy.

SAULT STE. MARIE, MICH.—Work on the power dam at St. Mary's Rapids, to cost about $250,000, is well under way by F. H. Clergue. The first step in this work is nearing completion. The breakwater and cofferdam necessary to allow the construction of the dam proper are finished, the work of installing 10,000 bags of sand and an amount of timber, and the pumping out of the cofferdam is to begin at once. An excavation will now be made to a formation suitable for the support of the concrete foundation. On this foundation five stone piers will be built. Four sluice gates will be put in between piers, which will complete the first section. The work will continue all winter. Talbot & Co. have the contract.

CHICAGO, ILL.—The Western Electric Co. has asked for a 21-year franchise for laying conduits between Jefferson and Harrison Sts., to Polk and Beach Sts.

MARTINSVILLE, ILL.—A 15-year franchise for an electric plant has been granted to Edgar Summers.

NEW LONDON, WIS.—Reports state that Geo. Cadogan Morgan, Royal Insurance Bldg., Chicago, Ill., has submitted estimates for a plant and water-works, to cost about $45,992.

BRIGHTON, IA.—The question of erecting an electric plant is being considered. E. B. Kizer, Clk.; V. E. Winegar, Pres.

BURLINGTON, IA.—The council has made a contract with the Peoples Gas & Electric Co for lighting this city for five years from Sept. 1, 1902.

ESTHERVILLE, IA.—The citizens of this place have signed a $16,000 note to insure the construction of an electric plant and the council recently passed an ordinance for the purchase of necessary supplies, etc. C. M. Brown, E. E. Haraung, L. L. Bingham, are interested.

ONAWA, IA.—An election will be held Dec. 16 to vote on the question of issuing bonds for extending the plant and water-works.

NEW ULM, MINN.—Chas. L. Pillsbury, Minneapolis, has submitted plans for extending the electric plant, at a cost of about $30,000.

KIMBALL, S. DAK.—The question of building an electric plant is being considered. Address Aldermen Ochsmer and Yarosh and Mayor Blodgett.

LEAD, S. DAK.—Reports state that a franchise for a gas plant will soon be asked for by the same company that has applied for a similar franchise in Deadwood.

BROOKFIELD, MO.—The contract for the street lighting here is to be let in Jan., 1902. R. N. Bowden, Mayor.

CHILLICOTHE, MO.—This place has voted down the issuance of $25,000 worth of electric light plant bonds.

KANSAS CITY, MO.—The Yaryan Lighting & Heating Co., of Toledo, operating in 20 cities, has asked for a franchise in this city.

KANSAS CITY, MO.—According to reports the Yaryan Lighting & Heating Co., of Toledo, O., is to ask for a franchise for lighting and heating in this city.

ST. LOUIS, MO.—Plans have been completed by the Citizens' Electric Lighting & Power Co., for an electric light and power plant at the foot of O'Fallon St. It is said that the completed plant will represent an outlay of $2,000,000.

WOLFE CITY, TEX.—Reports state that Rom Setzler has organized the Wolfe City Light & Power Co., and will at once put in an electric plant.

CHELAN, WASH.—The Chelan Transportation & Smelting Co. proposes to build a power plant on the Columbia River. R. D. Johnson, Gen. Mgr.

TACOMA, WASH.—Local papers state that Commissioner Clark has awarded the contract for furnishing this city with electric power for five years to the Snoqualmie Falls Power Co., at 12 mills per K-W. hour. Other bids for furnishing power were as follows: Washington Power Co., 10 mills per K-W. hour; Bates & Murray, $17.8 mills for alternating, and 12.1 mills for direct current; Tacoma Ry. & Power Co., 10.34 mills per K-W. hour for alternating current, and 12.1 mills for direct current; Tacoma Cataract Co., 12 mills per K-W. hour.

HAYWARDS, CAL.—An election will soon be held to vote on the question of issuing $15,000 in bonds for an electric plant.

OAKLAND, CAL.—The Suburban Electric Light & Power Co. has been granted a 15-year franchise for operating electric light and power wires on certain county roads.

OAKLAND, CAL.—Two new schemes for transmission of electric power have been started. Chas. D. Lane, the millionaire miner, of Stockton, Cal., and A. B. Thompson, of Los Angeles, Cal., are supposed to be behind one of these, which contemplates taking water from the middle fork of the Stanislaus River, bringing it through a 35-mile ditch and running power lines into San Francisco. The other enterprise, in which San Francisco and Oakland capitalists are said to be interested, is that of the Calaveras Mining, Power & Water Co., which has been financed for $1,000,000. It is to get water from the headwaters of the San Antoine Creek.

VANCOUVER, B. C.—The Vancouver Power Co., it is stated, propose to build a power dam at the outlet of Coquitlan Lake.

## BRIDGES.

BALLSTON SPA, N. Y.—The Union Bag & Paper Co. has been authorized to construct a bridge across the Hudson River between Moreau and Sandy Hill.

BINGHAMTON, N. Y.—The Climax Machine Co., Marathon, has been awarded a contract for building a bridge across Park Creek. J. M. Seabury, Supt. Sts.

BUFFALO, N. Y.—Bids are asked until Dec. 20 for constructing and erecting the superstructure for a viaduct over the railroads in Louisiana St., as stated in our advertising columns. Edward B. Guthrie, Ch. Engr. Grade Crossing Commission, 436 Ellicott Square.

CANAJOHARIE, N. Y.—The committee which interviewed the state engineer in regard to a swing bridge over the Erie Canal has made a favorable report. James Arkell, Chn. Com.

HACKENSACK, N. J.—Bergen county has been petitioned to build a bridge over the Overpeck from Palisades Park to Ridgefield Park and from Ridgefield Park to Hackensack.

NEW BRUNSWICK, N. J.—Bids are asked until Dec. 10 for completing the grading and masonry for the four-track stone arch bridge over the Raritan River, consisting of 12 spans of 66 ft., in the river, and two spans of 45 ft, six spans of 52 ft. and one ribbed span of 70 ft., on the land, as described in our advertising columns. Wm. H. Brown, Ch. Engr. Pennsylvania R. R. Co., Philadelphia, Pa.

DANVILLE, PA.—A bridge is to be constructed over Little Roaring Creek in Mayberry Township. George W. West, County Surv.

ERIE, PA.—City Engineer Briggs has been instructed to prepare plans and estimates for building a bridge over the P. & E. R. R. at Buffalo Road.

LEECHBURG, PA.—The Appollo, Leechburg & Vandergrift St. Ry. Co. has been granted a charter for a bridge across the Kiskiminetas River.

NORRISTOWN, PA.—Reports state that the Reading Ry. Co. will construct a bridge across the Schuylkill River at Cherry St.

TOWSON, MD.—The York Bridge Co., York, Pa., has been awarded a contract for constructing the abutment of the bridge at White Hall.

HUNTINGTON, W. VA.—The Huntington Railroad Bridge & Terminal Co. has been chartered, with the permit to build a railroad bridge across the Ohio River.

CROWLEY, LA.—The police jury has appropriated $2,500 for building a bridge across the Desbaanes River.

LEXINGTON, KY.—The Lexington & Georgetown Traction Co. will build a bridge over the Cincinnati Southern R. R. tracks, at a cost of about $8,000.

CINCINNATI, O.—Plans and specifications for the proposed St. Clair St. viaduct have been submitted to the board of public service by the city engineer; estimated cost, $14,947.

COLUMBUS, O.—Second Vice-President Warner, of the Missouri Pacific, is quoted as saying that a bridge will be built across the Mississippi River at Gray's Point, at a cost of $2,000,000.——A resolution has been adopted by the council taking steps to have a new viaduct erected over the Pennsylvania and Baltimore & Ohio Railroads on Cleveland Ave.

NILES, O.—The county commissioners will build two bridges across Mosquito Creek, at a cost of $6,000.——The council is planning to build a tunnel under the Erie R. R., according to reports.

BLOOMINGTON, IND.—Ed. F. White, Civil Engr., Harrison, has been engaged by Monroe and Owen counties to prepare plans, specifications and estimates for a bridge across White River, south of Gosport.

GREENFIELD, IND.—Bids are asked until Dec. 7 by the county commissioners for constructing nine bridges.

LAFAYETTE, IND.—Wallace Marshall, Designing Engr., writes us that plans have been prepared for a four-truss, plate girder, stone foundation, asphalt floor bridge, 20 ft. wide, capacity 100 lbs. per sq. ft., having five spans, as follows: Two 129 ft. 6 ins., two 127 ft. and one 59 ft.; estimated cost of superstructure, $30,000; substructure, $2,000.

MUNCIE, IND.—The Indiana Bridge Co. has been awarded a contract for constructing a bridge over White River between Mt. Pleasant and Salem Townships, at $7,000.

DETROIT, MICH.—The Grand River Toll Bridge Co. has been incorporated, with a capital of $25,000, and will construct a toll bridge from Spring Lake to Grand Haven.

BLOOMINGTON, ILL.—A steel bridge is to replace the present structure about four miles east of Gibson.

PAXTON, ILL.—The Canton Bridge Co., Canton, O., has been awarded a contract for constructing the Pollock bridge over the Big Four drainage ditch, at $1,200.

OSHKOSH, WIS.—George Randall, Cy. Engr., has estimated the cost of the proposed 60-ft. span bridge over Sawyer Creek at about $7,000, including filling in.

WATERLOO, IA.—J. R. Vaughan, Secy. Gen. Com., writes us that it is proposed to construct a concrete or a steel girder bridge, 60 ft. wide, having seven spans of 75 ft. each; estimated cost of superstructure, $50,000, for which bids will soon be asked.

MANKATO, MINN.—Bids are asked until Dec. 8 for repairing and replanking the Kerns and Swartout bridges. Ed. Weaver, County Audr.

ST. CLOUD, MINN.—The covered bridge over Sauk River has been condemned and will probably be rebuilt soon. John D. Morgan, Cy. Engr. and County Surv.

TOPEKA, KAN.—The Missouri Valley Steel Bridge Co., Leavenworth, has been awarded a contract by the Oklahoma & Western Ry. for constructing 12 steel bridges.

CARTHAGE, MO.—P. J. McNerney is preparing plans for stone arch bridges over the mill-race.

EDINA, MO.—Bids are asked until Dec. 14 for constructing a bridge in Greensburg Township. Thos. Conway, Road and Bridge Com.

ST. LOUIS, MO.—Bids are asked until Dec. 6 for removing the superstructure of the Choteau Ave. bridge and building a new superstructure in its place. Hiram Phillips, Pres. Bd. Pub. Improvements.

LOS ANGELES, CAL.—Reports state that the Los Angeles Pacific R. R. Co. will construct a bridge at the intersection of Sunset and Lakeshore Boulevards, at a cost of $6,000.

NEVADA CITY, CAL.—An iron trestle nearly three miles long will have to be built by the Yuba & Nevada County R. R. in order to get into the city of Marysville.

SANTA MONICA, CAL.—It has been voted to issue $25,000 in bonds to build a bridge on Ocean Park Ave. to replace the present structure.

SYDNEY, N. S.—Application will be made at the next session of parliament for an act to incorporate the Strait of Canso Bridge Co., capital $5,000,000, to construct a railway, tramway, vehicle and passenger suspension bridge, 150 ft. high, of not less than 1,000 ft. spans, across the Strait of Canso from Port Hastings to Cape Porcupine, with power to construct branches not exceeding 10 miles in length connecting with the different railways. Ross & Ross, Solicitors.

BRANTFORD, ONT.—The city is negotiating with the Grand Trunk Ry. for the latter to build a bridge over Grand River.

## BUILDINGS.

BOSTON, MASS.—The general contract for the 6-story brick, steel and stone mercantile building to be erected by the Boston Wharf Co. in Summer St. has not yet been awarded. The dimensions of the new structure will be 349 × 100 ft., and the cost, above the foundations, about $300,000. A steam heating plant will be installed, also electric light and elevators. Plans were drawn by M. D. Safford, Arch., Boston.

ANSONIA, CONN.—Competitive plans for the new city hall will be received by H. E. Green, Secy. of the committee appointed for that purpose, until Dec. 10. The structure will cost about $50,000.

BUFFALO, N. Y.—Plans have been prepared by H. Osgood Holland, Arch., for new additional buildings for the Church Home, to cost about $60,000.

JAMESTOWN, N. Y.—Bids are asked until Jan. 4 for constructing the post office at Jamestown. James Knox Taylor, Supervising Arch., Treasury Dept., Washingington, D. C.

NEW YORK, N. Y.—Plans have been filed by Frederick Gerken, 90 West Broadway, for a 5-story brick office building, 27 × 54 ft., at Hudson and Chambers Sts., to cost $30,000. Horgan & Slattery, Archs., 1 Madison Ave.; by Wm. M. Ryan, 149 Broadway, for 14 3-story brick dwellings, 20 × 50 ft., in Loring Place, to cost $98,000. A. D. Salderon, Arch., 130 Broadway; by Dr. E. A. Hoffman, 1 Chelsea Square, for an 11-story brick apartment house at 1132 Broadway, 28 × 28 ft., to cost $100,000. John R. Snook & Son, contractors, 261 Broadway; by John Williams, 556 West 27th St., for a 6-story brick factory, 50 × 99 ft., at 27th St. and 11th Ave., to cost $35,000. C. H. Caldwell, Arch., 160 Fifth Ave.; by the Central Realty Co., 900 Seventh Ave., for a 12-story brick hotel, 60 × 90 ft., at 120 West 57th St., to cost $350,000. Harry B. Mulliken, Arch.; by Esther A. Wheaton, 78 East 96th St., for a 4-story brick stable, 50 × 95 ft., at 209-11 West 109th St., to cost $30,000. Henry A. Koeble, Arch., 67 West 125th St.; by the Mission of the Immaculate Virgin, for a 4-story brick club, 32 × 87 ft., in West 56th St., to cost $30,000. Schickel & Ditmars, Archs., 111 Fifth Ave.

NEW YORK, N. Y.—The board of education will ask the board of estimate and apportionment for $12,495,200 for school buildings and site. The construction, equipment and improvement of school buildings and acquisition of sites will be apportioned as follows: Manhattan and The Bronx, $6,656,000; Brooklyn, $4,422,600; Queens, $1,190,000; Richmond, $226,000.——The property running from 210 Fifth Ave. to 1132 Broadway has been leased by E. H. Crulkshank & Co. for 20 years to English harness manufacturers, who propose erecting a 10-story building.——The Progress Club has secured property at Central Park West and 88th St. for the site of its new club-house, which will be erected early next year, at a cost of $250,000.——James R. Burnet, Chairman of the House Committee of the City Club, 19 West 34th St., has stated that several sites for the proposed new club-house are under consideration.——The board of directors are discussing the matter of moving the New York Juvenile Asylum to Dobbs Ferry.——The Society of the Sons of the Revolution has had plans completed for a fireproof building in the neighborhood of 57th St. and Seventh Ave. The proposed new building will occupy a plot 50 × 100 ft., and will be two stories high. It will cost about $100,000. Work is to be started the first of the year. York & Sawyer, Archs., 156 Fifth Ave.——The plot at 26 East 20th St., owned by the Wm. Steinway estate, has been sold by A. L. Mordecai & Son to a builder who will erect a 9-story hotel.——The bid of John Pierce, of New York, for the construction up to and including the first story of the New York custom house, at $495,646, has been accepted. The building will be constructed of Fox Island granite.——A festival will be given by the St. John's Long Island City Hospital on Dec. 16, the proceeds to be devoted to the building of a new wing, to cost $150,000.——The following bids were received by M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C., on Nov. 30 for constructing a 2-story brick and steel building at the navy yard; (1) building complete; (2) same as (1), omitting the two elevators; (3) maker of elevator; name of method of fireproofing: Herman Probst, New York, (1) $85,665, (2) $81,645, (3) Baltimore Machine Works; fireproofing, expanded metal, Roebling for $300 additional, Columbian for $700 additional. George L. Walker, New York, (1) $95,250, (2) $89,895, (3) Otis; expanded metal. Merrick Fireproofing Co., Jersey City, N. J., (1) $84,000, (2) $80,000, (3) Warner; concrete and metal. R. H. Hood Co., New York, (1) $84,400, (3) Baltimore Machine Works, concrete and metal. Williams & Gerstle, New York, (1) $88,999, (2) $84,799, (3) Reedy; Roebling. New York Bridge & Iron Co., New York, (1) $81,000, (2) $76,000, (3) A. R. See, New York expanded metal. Chas. H. Peckworth, New York, (1) $82,600, (2) $78,600, (3) Warner, Roebling. P. J. Carlin & Co., Brooklyn, (1) $82,793, (2) $78,793, (3) Warner; metal and concrete; time, eight months. O'Brien & Hoolihan, Syracuse, (1) $81,300, (2) $76,200, (3) Otis; expanded metal. Cramp & Co., Bridgeton, N. J., (1) $83,680, (2) $79,680, (3) Baltimore Machine Works or Reedy; expanded metal and concrete or welded wire and concrete.

SYRACUSE, N. Y.—J. M. Mertens, High School Comr., will have charge of the furnishing of the new high school, which will cost about $30,000.

SYRACUSE, N. Y.—The committee of the board of supervisors has recommended that the county be bonded for $1,000,000, to purchase the square upon which the Court House stands and to erect a new Court House and entire set of county buildings.

ASBURY PARK, N. J.—Cleverdon & Putzel, Archs., New York, have prepared plans for a 4-story brick addition to the department store of Steinback & Co. at this place, to be 28 × 67 ft. Estimates are now being taken.

ATLANTIC CITY, N. J.—The contract for the new beach front apartment house to be built by John T. Young has been awarded to Stiles & McClay, Atlantic City. The building will be of steel, concrete and stone construction, and will cost about $300,000.

CAMDEN, N. J.—Thomas Hay, builder, will soon commence work on the new storage warehouse on Haddon Ave., between Kaighn Ave. and Syracuse St. It will be of brick and stone, four stories high, and 60 × 120 ft.

NEW HAVEN, PA.—Bids are wanted by the Pittsburg, McKeesport & Connellsville Ry. Co. until Dec. 16 for the construction of the buildings of the main power station and for the main car barn and repair shop, to be located near this city, as stated in our advertising columns. M. R. McAdoo, Gen. Mgr., Bank for Savings Bldg., Pittsburg.

PHILADELPHIA, PA.—Plans have been prepared by Caldwell & Simons, Archs., for the proposed 6-story factory at 116-118 North Seventh St.——Permission has been granted to Lewis Havens' Sons for tearing down the old Moore mansion, 1216-20 Arch St., on which site the new building for Young, Smyth & Field & Co. will be erected. It will be an 8-story brick, terra cotta and granite building, 75 × 173 ft. Plans have been prepared by Field & Medary, Archs., and work will be started at once.——Plans are being prepared by Paul A. & Seymour Davis, Archs., for the Crozer Home, at Upland. It will be a 2-story brick structure, 40 × 100 ft., and will cost about $50,000.

PITTSBURG, PA.—Baker & Dallett, Archs., 1604 Chestnut St., Philadelphia, have plans under way for a library building for the Westchester Normal School.——J. F. Emmerling, Arch., Herman Bldg., has completed plans for a 14-room brick and stone dwelling for Dr. R. W. Stewart, to be erected on Fifth Ave., near Neville St., to cost $15,000.——Plans have been completed by S. F. Heckert, Arch., 341 Sixth Ave., for an addition to Mercy Hospital, to cost $100,000. The building will be 180 ft. long and five stories high.——The Hostetter Bitters Co. will erect a 10-story brick warehouse and factory at Water and Ferry Sts. It will be 60 × 160 ft., and cost $200,000.——Wm. M. Brinker will erect a 4-story apartment building, 80 × 110 ft., at Sherman and Montgomery Aves., Allegheny, to cost about $75,000.

POLK, PA.—Bids are asked until Dec. 11 for erecting a hospital for the Institution for the Feeble Minded of Western Pennsylvania. John A. Wiley, Secy.

WEST HOMESTEAD, PA.—The school board of West Homestead has selected J. W. Eckles, Arch., New Castle, to draw plans for a new building to replace the burned structure, to cost about $40,000.

BALTIMORE, MD.—Bids are asked until Jan. 8 for the foundations, superstructure and roofing of the U. S. custom house at Baltimore. James Knox Taylor, Supervising Arch., Washington, D. C.; Hornblower & Marshall, Archs., 1509 H St. Northwest, Washington.

WASHINGTON, D. C.—The county commissioners have decided to accept the plans of J. W. Golucke, Arch., for the new court house here, to cost about $40,000.

WASHINGTON, D. C.—Bids are asked until Dec. 27 for furnishing elevator enclosures, automatic elevator door openers and Meaker or rolling shutter doors, also for hardwood, tile or mosaic floors for the new building for the Government Printing Office, as stated in our advertising columns. Capt. John Stephen Sewell, U. S. Engrs.

McRAE, GA.—Bids are asked until Jan. 13 for building a 2-story brick jail and jailor's residence. Geo. M. Willcox, Comr. Bd. Roads and Revenues.

BIRMINGHAM, ALA.—It is said that the congregation of the First Baptist Church will erect a new edifice, to cost about $50,000. Plans have not been definitely decided on.

MOBILE, ALA.—Bids are asked until Dec. 30 for constructing a depot at Choctaw Point, Ala., as stated in our advertising columns. Lt.-Col. A. N. Damrell, U. S. Engrs.

JACKSON, MISS.—The following bids were received by the county supervisors for erecting the new court house at West and Pearl Sts.: Martin & Moody, Comanche, Tex., $62,841; H. M. Taylor, Jackson, $57,076; Rubush & Dabbs, Meridian, $54,104; Thompson & Brother, Birmingham, Ala., $52,940 (accepted).

ALEXANDRIA, LA.—It is reported that F. M. Welch, Mayor, wishes plans and specifications for a high school building, to cost about $35,000, exclusive of heating, fixtures, etc.

NEW ORLEANS, LA.—The Tulane Educational Fund has decided to erect a building on the site of the old Katz Building, in Camp St. The new structure will be seven stories high and fireproof. Plans have not been completed. Audrey & Bendernagel, Archs.

JOHNSON CITY, TENN.—The contracts for four of the six hospital buildings for the Soldiers' Home have been awarded to J. A. Parrish, Lynchburg, Va., at $183,497.

LOUISVILLE, KY.—Final arrangements have been made by Col. Harry Weissinger for the erection of an 8-story apartment house at Third St. and Broadway, to be 170 × 212 ft., and to cost about $285,000. Plans are now being prepared by McDonald & Sheblessy, Archs.

COLUMBUS, O.—Plans and specifications are wanted by the King Ave. M. E. congregation until Dec. 18 for a church, to have a seating capacity of 650 in the auditorium and 100 in the gallery. Richard Ackland may be addressed.

COLUMBUS, O.—The Ohio Archaeological & Historical Society will advocate an appropriation by the coming legislature for the erection of a state library building.

HAMILTON, O.—Bids are wanted by the board of education until Jan. 1 for erecting a school building, to cost about $35,000.

IRONTON, O.—H. R. Brown, County Audr., writes us that the court house proposition was defeated at the recent election.

EVANSVILLE, IND.—The contract for the erecting of the passenger depot for the Louisville & Nashville R. R. has been let to Christ Kanzler & Son, Evansville, at about $75,000. The contract for the freight depot and other buildings will be awarded later.

MONTICELLO, IND.—The trustees of the Christian Church at this place have employed J. Albert Bonnegrin, Arch., La Fayette, Ind., to prepare plans and specifications for a new stone church to cost about $10,000. Bids will probably be asked by Feb. 1. Dr. M. T. Didlake is a trustee.

ALTON, ILL.—Bids are asked until Dec. 7 for the erection of a mill and warehouse for the E. O. Standard Milling Co. at this place. Lucas Pfeiffenberger, Arch., 102 West Third St., Alton.

CHICAGO, ILL.—Willis & Frankenstein have announced that it is definitely decided to erect a 10-story building at Wabash Ave. and Monroe St., to cost $500,000. It will be 67 × 171 ft. The contract for erecting the new structure has been let to W. A. & A. E. Wells. Holabird & Roche, Archs.——The Industrial Arts League will establish a guild in this city at Van Buren and Green Sts., at a cost of $100,000.——It is said that Terrill & Stuart will erect a 3-story apartment house on Lincoln Ave., after plans by A. E. Colcord, Arch., 970 Calumet Bldg. It will cost about $50,000.——W. H. C. Sykes and Willmore Allaway will erect a 3-story hotel at Hyde Park, estimated to cost $50,000.——Plans have been prepared by Andrew Sandegren, Arch., 155 Dearborn St., for a 3-story apartment house on Hazel Ave., to cost $56,000.——Building permits have been issued to the following: C. A. Carlson, for three 2-story brick apartments at 5220-22 Madison Ave., to cost $50,000; to Joseph L. Ryerson & Son, for a 2-story brick storage warehouse at 777-801 North Campbell Ave., to cost $75,000; to A. S. Terrull for a 3-story flat building at 253-5 Lincoln Ave., to cost $35,000.

SPRINGFIELD, ILL.—Bids are asked until Dec. 19 for the construction of an armory building. James A. Rose, Secy. Bd. Comrs.

DES MOINES, IA.—The Blue Line Transfer Co. has plans completed for a new warehouse, to be four stories, 200 × 132 ft.

DES MOINES, IA.—The Elks Lodge is getting up a fund for the erection of a new club house on 5th St., north of the Marquardt Building, which is to cost about $40,000.

IOWA CITY, IA.—W. J. Haddock, Secy. University of Iowa, informs us that nothing can be done regarding the proposed new medical building until the legislature meets in January, when appropriations will be applied for.

OMAHA, NEB.—Plans are being prepared by T. R. Kimball & Co. for the new freight station in Eighth St. for the Chicago, Burlington & Quincy R. R. The building will be two stories, 140 × 600 ft., and will be capped with a steel roof. It will cost about $75,000.

RAPID CITY, S. DAK.—The Fremont, Elkhorn & Missouri Valley Ry. has been granted permission to build a new depot on Rapid St., between Eighth and Ninth Sts. It will be a 2-story brick building.

LIVINGSTON, MONT.—It is stated that a $75,000 depot will be built here by the Northern Pacific R. R. It will be a 2-story brick and stone structure.

ST. LOUIS, MO.—The contract for the erection of a new building for the Nelson Morris plant has been let to Peter Reiman, of East St. Louis, at $100,000. It will be eight stories high, 250 × 120 ft.

ST. LOUIS, MO.—The Forest Park University Hotel Co. is promoting the scheme to build a hotel near Forest Park University. The company is capitalized at $100,000, the estimated cost of the building.

FORT SMITH, ARK.—Bids are asked until Dec. 10 for the erection of a court house and jail at Jasper, Newton county. W. S. Moore, Comr. Pub. Bldgs.

AUSTIN, TEX.—Bids are asked until Dec. 10 for the erection of a school building at the deaf and dumb asylum, Austin. H. P. Hilliard, Pres. Bd. Trustees. Olle J. Lorehn, Arch., Binz Bldg., Houston, writes us that the building will be 66 × 150 ft., and will cost about $40,000. It will be of brick, not fireproof, equipped with low-pressure Webster vacuum system of heating.

DENVER, COLO.—The city hall was destroyed by fire on Nov. 30. The building was of stone, six stories in height, and was erected in 1889 at a cost of $500,000.——F. E. Edbrooke, Arch., writes that the contract for the warehouse to be built by the Denver Dry Goods Co. has been let to Walter E. Towers, and work has already been started. It will be five stories, 66 × 120 ft., and cost $36,000.

BREMERTON, WASH.—Bids are asked until Jan. 4 for constructing a 3-story brick and steel fireproof building, 60 × 200 ft., at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

SEATTLE, WASH.—It is stated that Wm. Block will erect a fireproof hotel at Second Ave. and Seneca St., to cost about $300,000.

PASADENA, CAL.—The council has passed resolutions for the building of a city hall and jail at $49,500 and a new fire house, to cost about $20,000. M. H. Weight, Mayor.

SAN FRANCISCO, CAL.—The board of education has filed a request with the finance committee of the supervisors that the proposed allowance for school department improvements already provided for in the proposed bond issue be increased by $150,000 for the construction of a new polytechnic high school.

SANTA MONICA, CAL.—The election held on Nov. 20 resulted in carrying the bond issue for $35,000 for the new city hall.

STANFORD UNIVERSITY, CAL.—Chas. E. Hodges, Resident Arch., writes us that the contract for constructing the new mechanical engineering building at the Stanford University will be let by Feb. 1. The building will be of stone, fireproof, one story high, 230 × 120 ft., and will cost $50,000. It will be equipped with steam heat and electric light. Prof. Chas. Marx, Stanford University, may be addressed.

VALLEJO, CAL.—The following bids were received by M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C., on Nov. 30 for constructing two brick

and steel buildings at the Mare Island Navy Yard; (1) machine shop and foundry complete; (2) machine shop, (3) foundry: Penn Bridge Co., Beaver Falls, Pa., (1) $141,347, (2) $68,890, (3) $72,457; Wm. N. Concanon, 40 New Montgomery St., San Francisco, Cal., (1) $127,964 (accepted), (2) $62,585, (3) $65,379; Healy, Tibbitts & Co., 22 Market St., San Francisco, (1) $129,883, (2) $64,190, (3) $67,882; Cotton Bros. & Co., Oakland, Cal., (1) $132,000, (2) $65,500, (3) $67,000, time, 12 months; Thomas Butler, 40 New Montgomery St., San Francisco, (1) $130,350, (2) $63,797, (3) $63,553; A. McElroy, 739 McAllister St., San Francisco, (2) $63,789, (3) $67,429, main floor not included for foundry, time, one year; Dewar & Quinn, 318 Bush St., San Francisco, (1) $131,500, (2) $64,500, (3) $67,000.

NIAGARA FALLS, ONT.—Bids are asked until Dec. 15 for the erection of a steel frame machine shop at this place. R. P. Rogers, Engr.

FORT WILLIAM, ONT.—The Canadian Pacific R. R. is reported to be calling for bids for a grain elevator at this place. J. W. Leonard, Gen. Supt. Western Division, Winnipeg, Man.

## WATER-WORKS.

BIDDEFORD, ME.—The Artesian Water Co. has been incorporated with a capital of $50,000. Robt. E. Seidel, Pres.; Leroy Haley, Treas.

DEXTER, ME.—Efforts are reported as being made to construct works next year.

ASHFIELD, MASS.—J. M. Sears, Town Clk., writes us that the town has voted to ask the legislature for authority to secure a water supply; estimated cost about $10,000. There is also talk of a stock company being formed. E. C. & E. E. Davis, Engrs., Northampton, Mass.

LYNN, MASS.—The committee on water supply has voted to recommend that the water board be granted an appropriation of $75,000 for a new pumping station, installing a boiler, engine and pump, etc. Address Mayor Shepherd and President Littlefield, of the water board.

EAST GREENWICH, R. I.—The question of purchasing the works of the East Greenwich Water Supply Co., whose franchise expires in about two years, is being considered by the city. The company is erecting a standpipe, and proposes to lay two miles of mains.

NORTH PROVIDENCE, R. I.—The question of a better water supply is being considered.

NEW HAVEN, CONN.—The present 10-year contract with the New Haven Water Co. expires in February. The city has the right to purchase the works, the value to be fixed by a commission.

WATERBURY, CONN.—The water board has recommended that $25,000 additional appropriation be made next year for completing the reservoir which will cost about $125,000.

ALFRED, N. Y.—C. Stillman, Clk., writes us that only a vote has been taken authorizing the issuing of $15,000 in bonds for works, the water supply to be secured from wells.

GREEN ISLAND, N. Y.—An election will soon be held to vote on the question of building works to cost about $80,200. J. F. Clark, Village Pres.; F. M. Breen, Village Clk.; J. Leland Fitzgerald, Engr., Schenectady, N. Y.

LOCKPORT, N. Y.—John H. Wilson has submitted a proposition to furnish this city with water by gravity.

NEW YORK, N. Y.—The specifications for the $500,000 contract for relining the Millburn reservoir have been submitted by Water Commissioner Dalton to Corporation Counsel Whalen for approval as to form and as soon as they come back Mr. Dalton will have them printed and he will also call for bids.

ROCHESTER, N. Y.—It is proposed to build a new gate house at the Mount Hope reservoir. Address City Engineer Fisher and Commissioner Grant.

ROCKVILLE (L. I.), N. Y.—Bids are asked by the village board until Dec. 10 for the purchase of $10,000 of bonds for a new pump.

SCHENECTADY, N. Y.—The water commissioners have decided to lay a 24-in. pipe line to cost about $68,600, and to build a standpipe to cost about $47,000. Address Commissioners McDermott, Bailey and Peters.

UTICA, N. Y.—Mayor Sherman has vetoed the ordinance granting a franchise to the Whitestone Water Co.

DOVER, N. J.—The water board has awarded the contract for building two new reservoirs, to cost about $150,000, to a company in which ex-City Clerk Cogan, of Passaic, N. J., is interested.

LINDEN, N. J.—The question of works and a sewerage system is being considered. W. E. Mitchell, Chn. Township Com.; H. B. Hardenburg, Mayor; J. L. Bauer, Engr.

LONG BRANCH, N. J.—The board of commissioners has directed the city surveyor to make a report for city works. It is stated that the Tintern Manor Water Co. wishes to secure another 10-year contract, but Mayor W. S. Ree is opposed to it.

PATERSON, N. J.—The Mount Prospect Water Co. has been incorporated with a capital of $100,000 by Geo. F. Horsey, of Ramsey, N. J.; J. H. Sandford, 147 W. 15th St., New York, and Andrew Martin, 36 Clark St., Paterson.

RED BANK, N. J.—F. E. Pratt, Engr. in Charge, Tintern Manor Water Co., writes us that a contract for 12 17-ft. mechanical filters has been let to the N. Y. Filter Co.

DUNBAR, PA.—Dan'l Rife, of Duncannon, Pa., has asked for a franchise for works.

HARRISBURG, PA.—Jas. H. Fuertes, of New York; Warren H. Manning, of Boston, and M. R. Sherrerd, of Newark, N. J., have submitted reports on extensive public improvements in this city, to include extensions to the water-works, sewerage system and the parks. The total estimated cost of these improvements is about $1,155,000.

ROYALTON, PA.—The Royalton Water Co. has been incorporated with a capital of $1,000 by Geo. S. Billmeyer, of York, Pa.; J. W. Rewalt and B. S. Peters, of Middletown, Pa.

SCRANTON, PA.—Chas. Robinson, Pres. Central Penn. Brewery Co., and others, propose to organize a water company to furnish water to the towns in the Lackawanna Valley, from Carbondale to Taylor, including Scranton.

SCRANTON, PA.—The board of trade has asked councils to take steps towards constructing city works.

BALTIMORE, MD.—Bids are asked by the water department until Dec. 10 for furnishing 6 to 30-in. water pipe, valves, meters, brass work, etc., for use during next year; estimated cost $50,000.

CUMBERLAND, MD.—Reports state that the city will soon buy a new pumping machinery, etc. J. C. Trautwine, Jr., Engr., 257 So. Fourth St., Philadelphia.

GRAHAM, VA.—Reports state that works will be built.

HAMPTON, VA.—We are informed that franchises to a new company to furnish water to Hampton, Phoebus and Elizabeth City, have been granted. The money is now being secured, and work will be begun as soon as the plans are matured. Estimated cost $250,000. John Birkenbine, Des. Engr., Odd Fellows Temple, Philadelphia.

GREENSBORO, N. C.—Hobbs & Abbott have been awarded the contract for building a 2,000,000-gallon reservoir for filtered water. It is stated that next spring another reservoir will be built.

FLORENCE, S. C.—Bids are asked by the board of water commissioners until Dec. 17 for the purchase of $40,000 of bonds for the proposed works.——E. H. Lucas writes us that no time has been set for receiving bids for constructing the works. The water will be received from artesian wells. Pop., 6,000. Hite-Smith & Minshall, Engrs., Hyattsville, Md.

MERIDIAN, MISS.—Plans and specifications for a filtration plant for the works of the American Water-Works Co. have been completed.

NATCHEZ, MISS.—Reports state that this place proposes to build works and a sewerage system.

NEW ORLEANS, LA.—Superintendent Geo. G. Earl has submitted plans for furnishing this city with a new water supply of 40,000,000 gallons a day at a cost of about $1,500,000.

SHREVEPORT, LA.—Estimates of the value of the works to fix a price for the purchase of the same by the city will be submitted about Feb. 1. W. T. Crawford, Chn. Water Com.

DICKSON, TENN.—An injunction has been secured restraining the city from issuing $35,000 in bonds for works and an electric plant.

CINCINNATI, O.—The water-works commissioners propose to build a roof over the reservoirs in Eden Park to cost about $1,000,000. G. Bouscaren, Ch. Engr.

COLUMBUS GROVE, O.—A site has been selected by the council for the proposed new pumping station.

COLUMBUS, O.—The question of installing additional water meters at a cost of about $100,000 is being considered.

EAST LIVERPOOL, O.—An election will be held in about a month to vote on the question of issuing $75,000 in bonds for gravity works on Little Yellow Creek.

FINDLAY, O.—The question of securing a new water supply from Vanlue Springs is being considered by President Frey and Mr. Crispin, of the water-works board.

WESTERVILLE, O.—John P. Force, of Columbus O., has been engaged to prepare plans for the proposed works to cost $25,000, sewers to cost $20,000 and paving to cost $30,000. Bids for the bonds were received Dec. 1.

FORT WAYNE, IND.—Bids are asked until Dec. 12 for furnishing and erecting a horizontal compound condensing high-duty pumping engine of 6,000,000 gallons capacity. Check, $1,000. Wm. Kaough, Pres. Bd. Water-Works Trustees

ARMADA, MICH.—An election will soon be held to vote on the question of issuing bonds for works.

CRYSTAL FALLS, MICH.—P. W. Keating, of Detroit, has been engaged to prepare plans for works.

GRAND RAPIDS, MICH.—The board of public works received 16 proposals Nov. 26 for furnishing this city with a water supply. Propositions were received from the Grand Rapids Water Supply Co., D. L. Stiven, Pres., the L. K. Davis Co., of Indianapolis, Ind., submitting seven proposals ranging from $660,000 to $1,632,000; the T. A. Gillespie Co., of Brooklyn, N. Y., three proposals, ranging from $1,585,000 to $2,350,000; Edwin C. Low and Charles Cooper, of Brooklyn, five proposals, ranging from $3,485,000 to $4,995,000. None of the bids are based on a water supply from Lake Michigan.

HAMTRAMCK, MICH.—Reports state that Matthew Finn, of Detroit, Mich., has been awarded the $88,000 of bonds for the proposed works. Address President Harris and Trustee Oehmke.

LAKE CITY, MICH.—Daniel Reeder has sold the property, franchises, etc., of the Lake City Water-Works Co. to C. L. Ostrander. The city has the option of buying the works at the expiration of the franchise on Aug. 20, 1904.

WEST BAY CITY, MICH.—G. Kubach, Supt., writes us that the council has issued $25,000 in bonds for extending the mains, but nothing will be done until spring.

ABINGDON, ILL.—Reports state that construction will commence at once on the proposed works to cost about $30,000.

ALTON, ILL.—The council is considering the question of granting a franchise to the Boston Water & Light Co. and also of asking for bids for furnishing the city with water for fire protection. Address Alderman Armstrong.

ELGIN, ILL.—R. R. Parkin, Supt., writes us that plans are being prepared for a shaft and tunnel to wells 100 ft below the surface, and pipe each well back to shaft which will be 10 ft. in diameter. Pumps will be installed at the bottom of the shaft.

PEORIA, ILL.—We are informed that main extensions, including parallel to present 30-in. force main, are being considered.

ROANOKE, ILL.—The question of calling an election to vote on the question of issuing bonds for works is being considered.

RUSHVILLE, ILL.—The contract for sinking a well not more than 1,500 ft. deep for a water supply has been let to Swenson & Co., of Minneapolis, Minn.

VIRDEN, ILL.—The question of works is being considered. G. H. Westlake, Mayor.

APPLETON, WIS.—Bids will be asked at once by the city clerk for constructing city works. Geo. W. Sturtevant, Engr., Chicago.

ARCADIA, WIS.—An election will be held Dec. 17 to vote on the question of issuing $15,000 in bonds for works.

OSHKOSH, WIS.—Reports state that the Oshkosh Water-Works Co. has let a contract for an addition to the pumping station.

PRAIRIE DU CHIEN, WIS.—The mayor writes us that this place will vote in the spring on the question of works.

BOONE, IA.—The council is considering a proposition from S. L. Moore, J. G. Holmes and W. H. Crooks, of Boone, for installing new works, the water supply to be secured from the Des Moines River.

DES MOINES, IA.—The council is considering the question of loaning the Des Moines Water Co. $50,000 to be used for extending the mains to the army post.

BIRD ISLAND, MINN.—This place has voted to issue bonds for works.

MINNEAPOLIS, MINN.—Bids are asked until Jan. 31 for furnishing boilers and traveling crane for the two 15,000,000-gallon pumping engines in the N. E. pumping station. G. W. Sublette, Cy. Engr.; L. A. Lydiard, Cy. Clk.——The question of building a filtration plant to cost about $400,000 is being considered. Address Alderman Lane.

ALTON, KAN.—An election will be held Dec. 7 to vote on the question of issuing $5,000 in bonds for works.

FORT SCOTT, KAN.—The Fort Scott Water Co. has offered to sell its works to the city for $137,500.

WELLINGTON, KAN.—The A., T. & S. Fe Ry. Co. proposes to build a pumping station, etc., here for its trains, according to reports. W. Archer, Supervisor Water System, A., T. & S. Fe R. R.

SIOUX FALLS, S. DAK.—Bids were received Dec. 1 for the purchase of $210,000 of 5% bonds for the proposed works, or the purchase of the plant of the South Dakota Water Co. The company has offered to arbitrate the matter. E. G. Ledyard, Cy. Audr.

ESMOND, N. DAK.—We are informed that nothing has yet been done in regard to building works.

LIDGERWOOD, N. DAK.—The question of works and an electric plant is being considered, according to reports.

CARTHAGE, MO.—Burns & McDonnell, Postal Telegraph Bldg., Kansas City, Mo., have submitted plans and estimates for works for a place of 25,000 people.

EL DORADO SPRINGS, MO.—Burns & McDonnell, Postal Telegraph Bldg., Kansas City, Mo., is reported to have completed plans for works and a sewerage system.

WEBSTER GROVES, MO.—Geo. Burnett, of the Missouri River Light & Water Co., of St. Louis, has submitted a proposition to furnish this city with water from the Missouri River. T. C. Young, Mayor, has appointed N. D. Thompson, C. O. Twining and T. W. Clark a committee to consider the matter.

HARRISON, ARK.—Arrangements for the construction of the proposed works to cost about $20,000 and a sewerage system to cost about $7,500 are being completed. Address Councilmen Worthington, Bradshaw and J. E. Andrews.

WALNUT RIDGE, ARK.—Reports state that this place will soon have works and an electric plant.

HOUSTON, TEX.—The Brazoria Rice & Irrigation Co. has been incorporated with a capital of $400,000 to build a system to irrigate about 100,000 acres of land with the Brazos River in Brazoria county. Henry A. Doyd, Pres., New York; Andrew Dow, Vice-Pres. and Gen. Mgr., Houston; R. M. Cash, Secy.

MARLIN, TEX.—Bids are asked until Dec. 9 for the purchase of $54,000 of 5% bonds, $18,000 of which is for water works, and $20,000 for school buildings. Wm. Shelton, Mayor.

CENTRAL CITY, COLO.—The council has voted to build a reservoir of 6,000,000 gallons capacity.

FLORENCE, COLO.—The council has purchased 22 acres of land to be used for a reservoir of 50,000,000 gallons capacity.

PUEBLO, COLO.—The Pueblo Water Co. will begin construction at once on its proposed works on Minnequa Heights, Bessemer, to cost about $200,000.

HOBART, OKLA. TER.—The council has granted franchises for works and an eelctric plant, the companies at the end of 10 years agreeing to sell their respective plants. The plants are to be completed in 120 days.

NARDIN, OKLA. TER.—J. B. Russell, Mayor, writes us that the question of issuing $3,000 in bonds for works will be voted upon Dec. 16. If favorable, bids will be asked for a 100-ft. standpipe, 1,500 ft. of main, eight hydrants, pump, gas engine, etc., about Jan. 25. Pop., 7,000.

WAUKOMIS, OKLA. TER.—This place, it is stated, will soon vote on the question of issuing bonds for works.

EUFAULA, IND. TER.—The question of works is reported as being considered.

ENUMCLAW, WASH.—D. C. Ashman, Secy. Board of Trade, writes us that the White Run Lumber Co. proposes to build works. Pop., 800. A. G. Hanson, Engr.

SEATTLE, WASH.—A. H. Dimock, Asst. Cy. Engr., writes us that plans are being prepared for about 10 miles of wooden mains for the Fremont and Green Lake water supply; estimated cost, $65,000. Bids open Dec. 14 for three miles of sewer to cost $36,000. Bids will be asked in the spring for 31,000 yds. of asphalt paving. R. H. Thomson, Cy. Engr.

BURNS, ORE.—F. N. Averill, of Portland, Ore., has asked for a franchise for works and an electric plant.

PORTLAND, ORE.—The Albina Light & Water Co., the Woodlawn Water Co. and John Kubik have offered to sell their works to the city.

LOMPOC, CAL.—This place will soon vote on the question of issuing $40,000 in bonds for works.

LOS ANGELES, CAL.—The city has sold $2,000,000 of water bonds to the Commercial Investment Co., of Duluth, Minn., and to the Trowbridge & Niven Co., of Chicago.

PASADENA, CAL.—The council has voted $6,000 for a well for a water supply and $40,000 for sewers. M. H. Weight, Mayor; T. D. Allin, Cy. Engr.

PHOENIX, ARIZ. TER.—P. P. Parker writes us that the Verde Water & Power Co., recently organized, proposes to utilize for irrigation and power purposes the water of the Verde River. The detailed plans are not yet prepared.

SALT LAKE CITY, UTAH.—The South Fork Reservoir Co. has been incorporated with a capital of $50,000. W. H. Burrows, Pres., Huntsville, Utah; Geo. W. Bramwell, Secy. and Treas., Plain City, Utah.

LEWISTON, IDAHO.—This city has voted to issue $80,000 in bonds for city works. The Lewiston Water Co. proposes to ask for an injunction restraining the city from issuing the bonds. Address Councilman C. A. Hastings; Ernest McCullough, Cy. Engr.

MONCTON, N. B.—D. P. Kent, of Sussex, N. B., has been engaged by the I. C. Ry. Co. to bore for a water supply.

LINDSAY, ONT.—The question of thee towns purchasing the works will be voted upon about Jan. 6, according to reports.

SARNIA, ONT.—Wm. Logue, Mayor, writes us that the council has passed a provisional by-law to extend the works and pumping plant at a cost of about $85,000. The by-law will be voted upon Jan. 6. Pop., 8,000.

THOROLD, ONT.—The question of an increased water supply is being considered. It is stated that Jas. Battle has asked for a franchise for works, but it has not been favorably considered.

MONTREAL, QUE.—Superintendent Janin has recommended that $150,000 should be appropriated for improving the low level pumping station, to lay distributing mains and for new hydrants.

GLACE BAY, N. S., CAN.—C. M. Odell, Consult. Engr., Glace Bay, writes us that it is hoped the town will be in a position to award contracts for the proposed works in May. The works will consist of six miles of 12-in. cast-iron pipe, four miles of 6, 8 and 10-in. distributing mains, combined gravitation and pump, as an auxiliary, reservoir, 70 hydrants, etc.; estimated cost, $130,000. The town is just completing a new electric light plant.

## SEWERAGE.

BRIDGEWATER, MASS.—The question of a sewerage system is being agitated, according to reports.

MILFORD, MASS.—Reports and plans for a sewerage system have been received by the committee on sewers. Dr. Geo. P. Cooke, Chn. Com.

NEWBURYPORT, MASS.—Superintendent Curtis has announced that the cost of the North End sewer extension will be about $44,000.

PITTSFIELD, MASS.—The following bids have been received for the pumping station building and a screen house for the sewage disposal plant: Wiley & Foss, Pittsburg, Pa., $9,631; J. J. Prindeville, South Framingham, $9,548 (awarded contract).

BRISTOL, R. I.—The legislature has authorized the town to construct a sewerage system and issue $47,000 in bonds for the work.

NEW YORK, N. Y.—Bids are asked until Dec. 11 for building 260 lin. ft. of 36-in. and 522 lin. ft. of 30-in. brick sewers, 45 lin. ft. of 24-in., 242 lin. ft. of 18-in., 717 lin. ft. of 15-in., 2,250 lin. ft. of 12-in., and 1,022 lin. ft. of 6-in. pipe sewers, rock excavation, concrete, etc., in the boroughs of Brooklyn and the Bronx. Jas. Kane, Comr. Sewers, 13 Park Row.

SARATOGA SPRINGS, N. Y.—Reports state that a committee is inspecting the sewage disposal plant at Revere, Mass., and it is expected that a plant will be installed here at an early date.

HARRISBURG, PA.—The following bids were received on Nov. 25 for constructing sewers in three streets: Wm. Opperman, $2,638; Charles Anderson, $2,591; P. J. Bradley, $2,300; Fisher & Lynch, $2,055 (awarded contract).

WILLIAMSPORT, PA.—Mayor Williams has signed the ordinance for the proposed 5,000 ft. brick sewer in Locust St., which will cost about $100,000.

BALTIMORE, MD.—It is reported that State Senator Olin Bryan intends to introduce a bill to the legislature providing that the question of issuing $12,000,000 in bonds for a sewerage system be submitted to the people.

PHOEBUS, VA.—The street committee has been authorized to advertise for bids for plans and specifications for about 11,400 ft. of 8, 10, 12 and 16-in. pipe sewers in certain streets. Address Mayor White.

DURHAM, N. C.—A. L. Patterson & Co., Macon, Ga., have been awarded the contract for the construction work and Montague & Co., Chattanooga, Tenn., the contract for material for the sewerage system, at a total of $84,220.

FAYETTEVILLE, N. C.—The question of a sewerage system and water supply is being agitated. A. H. Slocomb is interested.

SALISBURY, N. C.—The sewerage committee has decided to extend the sewerage system in Long St.,and when this is completed the system will be extended in the South Ward.

ORANGEBURG, S. C.—The council will take action on Dec. 6 on the question of engaging a civil engineer to prepare plans and estimates for a sewerage system. L. H. Wannamaker, Cy. Clk.

LA GRANGE, GA.—Mayor Edmundson writes us that the city wants estimates for installing and operating a system of sewerage.

BESSEMER, ALA.—The council has passed a resolution to take steps to build a sewerage system, and the attorney has been instructed to prepare an ordinance authorizing the issuance of $70,000 in bonds for sewer purposes.

OPILIKA, ALA.—The Sanitary Sewerage Co., Philadelphia, Pa., has been granted a 30-year franchise for a sewerage system, at a cost of $30,000.

NASHVILLE, TENN.—Bids are asked until Dec. 19 for constructing 1,936 lin. ft. of circular brick sewer, 11 ft. inside diameter, as stated in our advertising columns. This is the initial letting of trunk sewers to the amount of $350,000. George W. Stainback, Chn. Bd. Pub. Wks.; Wm. W. Southgate, Cy. Engr.

GEORGETOWN, KY.—Mayor T. H. Sinclair writes us that no steps will be taken on the sewer question until after Jan. 1st.

CLEVELAND, O.—The council has adopted a resolution for a system of sewerage and drainage in East Madison Ave.

COLUMBUS, O.—City Engineer Griggs has been instructed to prepare plans and estimates for constructing 8, 12, 15, 18, 20 and 24-in. sewers in Thompson's subdivision.

GENEVA, O.—D. G. Palmer, Mayor writes us that plans and estimates are being prepared for sewers, and that they will probably be completed early in the new year. Sherman & Riggs, Designing Engrs., Toledo, O.

MASSILLON, O.—Neidlinger & Kraft have been awarded a contract for constructing sewers in Third and Erie Sts., and the sewer commission is preparing plans for the North St. sewer.

TOLEDO, O.—The city engineer has been instructed to prepare plans for a sewerage system in district 38.

HUNTINGTON, IND.—Bids are asked until Dec. 10 for constructing a 12-in. pipe sewer in Washington St., with appurtenances, etc. Frank Guthrie, Cy. Engr.

MARION, IND.—Bids are asked until Dec. 17 for constructing sanitary sewers. Cyrus G. Robbins, Cy. Clk.

NEW ALBANY, IND.—Bids are asked until Dec. 16 for constructing a 10-in. sewer in two alleys. Edward Crumbo, Mayor; Thos. M. McCulloch, Cy. Clk.

COLDWATER, MICH.—Plans and specifications for a sewerage system have been prepared and laid before the council; estimated cost, $115,871.

WYANDOTTE, MICH.—Mayor Wm. Campbell writes us that plans for a sewerage system have been adopted, and that the proposition to build same will be voted on some time this winter. L. K. Brown, Designing Engr., Detroit.

BELLEVILLE, ILL.—We are informed that plans have been completed for a brick and pipe sewer in West Main St. at an estimated cost of $13,390. Louis Graner, Cy. Engr.

CHICAGO, ILL.—Chief Engineer Randolph has submitted to the sanitary trustees plans and specifications for the proposed pumping plant which is to be erected at the foot of 39th St. for the intercepting sewer conduit. The capacity of the plant is to be 125,000 cu. ft. of water per minute. It will take 18 months to construct the machinery.

ROSSVILLE, ILL.—The council has voted in favor of constructing a sewer from the school house to the North Fork, at a cost of $2,500.

CUDAHY, WIS.—Civil Engineer Steinhagen, Milwaukee, has been awarded a contract for preparing plans, etc., for the proposed sewerage system, at $1,250.

FAIRMONT, MINN.—G. W. Potter, Civil Engr., Evanston, Ill., is preparing plans for five miles of sewers, with septic tanks, etc.

WASECA, MINN.—The city council is considering plans and specifications for a sewerage system. F. L. Farley, Cy. Recdr.

SALINA, KAN.—Specifications for 18, 21 and 24-in. sewers are on file with City Clerk Godfrey. The work will be let in three sections.

OMAHA, NEB.—Bids are asked until Dec. 26 for supplying the county with 12, 18 and 24-in. sewer pipe. D. M. Haverly, County Clk.

PUEBLO, COLO.—Bids are asked until Dec. 23 for constructing combined sanitary and storm-water sewers. Geo. F. West, Mayor.

FRESNO, CAL.—City Engineer Tellman has completed plans for a sewerage system in the additions; estimated cost $15,000.

VACAVILLE, CAL.—The proposition to issue $30,000 in bonds for a sewerage system was defeated at the election on Nov. 20.

HALIFAX, N. S.—It is reported that a loan of $30,000 will shortly be made for sewer purposes.

MONTREAL, QUE.—It is proposed to construct sewers in three streets. John R. Barlow, Cy. Surv.

GUELPH, ONT.—The sewerage committee has reported in favor of a septic tank sewerage system, and the engineer has been instructed to prepare plans and estimates.

HAMILTON, ONT.—At the next election a by-law will be submitted to the voters to authorize the issuance of $35,000 in bonds for constructing sewers.

TORONTO, ONT.—City Engineer Rust has estimated the cost of the proposed sewerage system at $1,750,000. It is proposed to carry the sewage in a tunnel and empty it into the lake 3½ miles from the cities' eastern limit.

VICTORIA, B. C.—W. J. Dowter, Cy. Clk., writes us that the sewerage loan by-law has been defeated.

## GARBAGE DISPOSAL—STREET CLEANING

BOSTON, MASS.—Local papers state that plans of the new garbage plant, to be erected on the south side of Spectacle Island, have been filed with Acting Superintendent Emerson, of the St. Dept., by Jones & Meehan, who have the contract for constructing it, by the New England Sanitary Product Co. The building will be 160 ft. long and 94 ft. wide, with a 3-story central section running the entire depth. It will be considerably larger than the plant at Cow Pasture. Work of grading and building the wharf will be started at once. The contractors will not expect to do much more than this until early in the spring, but material will be taken to the island during the winter. While the new garbage plant is being constructed the present garbage plant will continue in use. The increased capacity of the new plant will admit of disposing of garbage there and also at Cow Pasture until all the crematory at Cow Pasture shall have been removed to the new plant.

PHILADELPHIA, PA.—The following bids were received by the director of public works Nov. 26 for removing ashes and garbage and for street cleaning next year: The American Product Co., which was awarded the contract this year for $441,863, was the only Philadelphia firm to submit a proposal for the removal of garbage, and its bid of $489,900 was the lowest, the other two proposals being, respectively, the Cranford Co., of Brooklyn, of $538,000, and John G. Porter, 256 Third Ave., New York, of $620,000. The proposals for street cleaning and for the removal of ashes, this year's contract for which is $595,584, were as follows: Entire city, David McMahon, Cheltenham Ave., $680,000; Edwin H. Vare, 2101 So. Fourth St., $675,000; James Curran, $777-450. First District, comprising all that territory south of and including South St., between the Delaware and Schuylkill Rivers, David McMahon, $145,000; E. H. Vare, $125,000; James Curran, $146,000. Second District, from South to and including Poplar St., and between the two rivers, David McMahon, $195,000; James Curran, $196,000; E. H. Vare, $180,000. Third District, all that section west of the Schuylkill, David McMahon, $70,000; Peoples Bros., 2508 Callohill St., $76,000; James Curran, $72,000; Daniel Dooley, $65,000; Frank McCullough, $55,699. Fourth District, north from Poplar and east from Broad St., David McMahon, $185,000; Peoples Bros., $192,000; James Curran, $184,000. Fifth District, north of Poplar St. and west of Broad St. to the Schuylkill River, David McMahon, $138,000; Peoples Bros., $142,000; James Curran, $145,000. Sixth District, all of Broad st., including streets surrounding the city hall, David McMahon, $34,000; Richard P. Bennis, $28,890; Peoples Bros., $36,000; James Curran, $33,450. Included in the proposals opened for the Fifth District is one submitted by Frank McCullough for $25,794, but he claimed that it was a mistake, and should have been for the Sixth District. For removing snow the proposal of John McLoughlin was for single team $1.04 and for double team $1.90, and that of David Peoples was, respectively, 98 cts. and $1.80.

NATCHEZ, MISS.—Reports state that this city proposes to build a crematory. W. G. Benbrook, Mayor.

BUTTE, MONT.—The question of installing a new crematory is reported as being considered. Address Health Commissioner Leggatt.

MONTREAL, QUE.—The incinerator committee has asked for $89,750 for 1902, of which $71,184 is for moving garbage, $14,480 for incinerating it and $4,080 for removing dead animals. The amount voted in 1901 was $68,360.

## STREETS AND ROADS.

THORNDIKE, MASS.—The citizens have decided to ask for an appropriation of $3,000 in the spring to macadamize Commercial St.

PAWTUCKET, R. I.—Resolutions have been passed by the council for street improvements and sewers at a cost of $16,300.

ALBANY, N. Y.—The board of estimate and apportionment has authorized the issuance of $195,000 in bonds for street improvements.

BUFFALO, N. Y.—The report of the street committee recommending that the turnpike be improved at a cost of $11,300, has been approved by the council.

DRYDEN, N. Y.—The supervisors have voted to construct a strip of road south of the city at a cost of $6,100.

NEW YORK, N. Y.—Bids are asked until Dec. 13 for about 708,600 cu. yds. of earth and rock excavation, 40,778 sq. yds. of asphalt block paving, granite paving, masonry, flagging, concrete, pipe, etc., in certain streets in the boroughs of Bronx and Manhattan. James P. Keating, Comr. Highways, 13 Park Row.

NORWICH, N. Y.—The supervisors have voted to construct about five miles of road from this city to Plymouth.

HOBOKEN, N. J.—Bids are asked until Dec. 17 for new roadways and gutters, resurfacing, grading, etc., in Hoboken Cemetery, North Bergen. W. N. Parslow, Secy. Trustees, 213 Washington St.

HARRISON, N. J.—An ordinance has been passed by the council for brick or block paving in Davis St. B. P. Walsh, Town Clk.

RUTHERFORD, N. J.—A special election will soon be held to vote on the question of issuing $40,000 in bonds for macadamizing and sewers, according to reports.

PITTSBURG, PA.—The following contracts have been awarded: Evan Jones, grading, paving and curbing in Moultrie St., $5,000; Sweeney & Houston, sewer in Center Ave., $4,200.

WILKINSBURG, PA.—Bids are asked until Dec. 9 for grading, curbing and paving in three streets and for a 4-ft. circular brick sewer in an alley. Frease & Fiering, Borough Engrs.

ATLANTA, GA.—Mayor Mims has addressed a communication to the council asking that they consider the question of street repairs, at an estimated cost of $15,000.

NEW ORLEANS, LA.—The city engineer has prepared specifications for the maintenance of the paved streets and bids will be asked for the work.

CHATTANOOGA, TENN.—The question of paving with asphalt in 9th St. is before the board of public works.

NASHVILLE, TENN.—Bids are asked until Dec. 19 for about 20,000 sq. yds. of granite paving and about 25,000 sq. yds. of brick paving, as stated in our advertising columns. This is the original letting of street paving to the amount of $250,000. Geo. W. Stainback, Chn. Bd. Pub. Wks. Wm. W. Southgate, Cy. Engr.——No bids were received on Nov. 25 for the $250,000 issue of county turnpike bonds.

CINCINNATI, O.—Bids are asked until Dec. 28 for improving Skillman road in Sycamore township. Eugene L. Lewis, County Audr.

NATIONAL MILITARY HOME, O.—Bids are asked until Dec. 31 for about 2,542 sq. ft. of cement pavement and about 8,470 sq. ft. of cement roadways and crossings. A. J. Clark, Treas.

HOUGHTON, MICH.—Local press reports state that Quincy St. will be paved with brick next spring.

BELLEVILLE, ILL.—Louis Graner, Cy. Engr., informs us that plans have been prepared for paving West Main St. and the public square at an estimated cost of $30,195.

BELVIDERE, ILL.—The following bids were received on Nov. 27 for macadamizing South State St.: G. Maffanli, $6,972; T. J. Cornwell, $6,750; Fair Cement Co., $6,732 (awarded contract).

PEORIA, ILL.—A syndicate has purchased a tract of 86 acres, and it is understood that the tract will be laid out in streets, about ten miles of asphalt pavement laid and concrete sidewalks and a sewerage system constructed. Everett Smith, Schenectady, N. Y.; C. Fiske, Jr., Gloversville, N. Y., and O. L. Woodward and S. L. Briggs, Toledo, O., are interested.

GREEN BAY, WIS.—The following bids have been received for asphalt paving in Monroe Ave.: Western Paving & Supply Co., $67,603; Western Construction Co., $63,241; Barber Asphalt Paving Co., $67,240 (awarded contract).

JANESVILLE, WIS.—Bids are asked until Dec. 12 by the street assessment committee for grading North First St.

MANKATO, MINN.—Mayor Peterson writes us that they are contemplating paving the streets, but have not decided on what material to use. Work will be started in the spring.

TOPEKA, KAN.—James F. McCabe, Cy. Engr., writes us that the question of paving East 8th Ave. is in the hands of the committee and that the contract will be let about Feb. 1, 1902.

ST. LOUIS, MO.—Bids are asked until Dec. 13 for maintaining and keeping in repair for a term of ten years the asphalt pavements in nine streets. Hiram Phillips, Pres. Bd. Pub. Improvements. R. P. Garrett, Engr.

PORTLAND, ORE.—Smyth & Howard have been awarded a contract for improving Kearney St. at $3,536.

SEATTLE, WASH.—Bids are asked until Dec. 7 for grading and parking in East Olive St. C. B. Bagley, Secy. Bd. Pub. Wks.

RIVERSIDE, CAL.—Bids are asked until Dec. 10 for constructing cement sidewalks, curbing and steel and pipe culverts in Orange St. C. R. Stibbens, Cy. Clk.

TORONTO, ONT.—City Engineer Rust has estimated the cost of extending Bloor St. a distance of 5,000 ft. at $350,000. The work will consist of 1,200 ft. of steel trestle over Rosedale Ravine and Driveway, 1,432 ft. of bridge and trestle over the Don and the Don Valley and 2,368 ft. of grading and filling.

## MANUFACTURING PLANTS.

NEW BEDFORD, MASS.—A new fine goods mill will be erected in this place on the west side of Clark's point. The mill will be capitalized at $500,000, of which amount $350,000 has already been secured. George S. Homer, New Bedford, will be treasurer, and John Sullivan, Fall River, Superintendent.

SCHENECTADY, N. Y.—Local papers state that the report to the effect that the American Locomotive Co. would expend between $1,500,000 and $2,000,000 in improving and expanding its plants at this place and Dunkirk, has been confirmed. The Dunkirk Land & Improvement Co. is now securing land on which to erect homes for workingmen in Dunkirk, to be employed in the enlarged works.

CAMDEN, N. J.—The Old New Jersey Chemical Co.'s plant here is to be overhauled and repaired by the new purchasers. The amount of money to be expended on the works will be $30,000 for repairs and $100,000 for new machinery.

PATERSON, N. J.—The Rogers Locomotive Works has completed plans for an extension of the shops that when finished will enable the company to turn out 45 locomotives a month.

CAMBRIA, PA.—It is stated that the Cambria Steel Co. has decided upon the construction of a large axle plant in connection with its present works. The plans for the new building have been prepared by T. F. Tschudy, Arch., Moxham, and call for a building 1,200 × 85 ft.

DONORA, PA.—Ground has been broken for the plant of the Matthews Woven Wire Fence Co. adjoining the site of the Union Steel Co.'s mills. Plans and specifications have been prepared, and the contract let in a few days. The main building will be of structural steel and brick.

McKEESPORT, PA.—Work on the plant of the McKeesport Mfg. Co., in Port Vue, directly across the Youghiogheny River from this place, will shortly be started. It will be a tin plate plant, and will be capitalized at $550,000.

MONESSEN, PA.—The Pittsburg Steel Co. has purchased 15 acres of land at this place, and, it is said, will erect a plant to employ about 2,000 men.

NEW CASTLE, PA.—The Pennsylvania Engineering Co. has purchased 49 acres of land for the site of a new machine and structural plant, which will cost about $500,000.

McKEES ROCKS, PA.—A large manufacturing site in this place has been purchased by the Fort Pitt Malleable & Gray Iron Co. and a foundry to employ about 500 men will be built.

PHILADELPHIA, PA.—The directors of the Bethlehem Steel Co. have decided to increase the armor-making capacity of their mill. The expenditure of $500,000 has been authorized to improve and expand the plant, to increase the output from 4,500 tons of armor plate per year to 6,000.——Wm. Steele & Sons will shortly post plans for estimates for a plant for the Orinako Mills, to cost in the neighborhood of $75,000. The new structure will be five stories, 50 × 200 ft., and of slow burning construction, equipped with fire escapes, elevators and a cistern to contain about 125,000 gals. of water.——Hales & Ballinger, Archs., have prepared plans for an addition to the mineral water plant of Brinton & Brosins. The building will be three stories, 29 × 60 ft.——Thomas West, proprietor of the Wyoming Valley Knitting Mills, of Plymouth, Pa., has decided to remove his plant to this city, owing to labor troubles.——Carl P. Berger has sent out plans for a glass factory, including a power house, boiler and engine and cold storage rooms. The structure will be erected at Wayne Junction for Max Levy, and will be thoroughly fireproof, having a steel-trussed roof.

PITTSBURG, PA.—The Modern Typewriter Co. has been chartered in New York, with a capital stock of $1,000,000, and will erect works in this city. Thomas and J. C. MacConnell and Wm. H. Hays are interested.—The hair felt manufacturing plant of Julius De Long & Co., Allegheny, was destroyed by fire on Nov. 24; loss about $50,000.

PITTSBURG, PA.—The Fisher Foundry & Machine Co. is said to be planning extensive improvements and extensions to its plant in this city, to cost about $500,000. Fred. F. Fischer is a director.——The Pittsburg Brewing Co. has decided to build a stockhouse in connection with the Iron City plant at 33d St. and Liberty Ave., which will cost about $200,000. The plant will have a capacity of 100,000 barrels.——It is reported that the Pennsylvania R. R. is considering the proposition of building a steel car plant at either Johnstown or Steelton, and has ordered plans for the proposed works.

WARREN, PA.—C. M. Conradson, Pres. American Turret Lathe Co., Wilmington, Del., informs us that contracts will soon be let for the building and equipment of the company's plant at this place. The building will be 210 × 240 ft., of steel and brick construction.

WELLSVILLE, PA.—The Wellsville Whip & Net Co. has decided to rebuild its factory. The new building will be 500 × 50 ft. Additional machinery will be purchased.

YORK, PA.—The S. Morgan Smith Co. propose to make extensive enlargements to its manufacturing plant in the West End. A new 6-story, 60 × 80 ft. building, will be erected.

CLARKSBURG, W. VA.—R. T. Lowndes has decided to rebuild the woolen mills owned by him, which were recently destroyed by fire. The building will cost about $25,000.

MOUNDSVILLE, W. VA.—The Rubel Mfg. Co. is about to erect a $150,000 plant to manufacture fine paper and stationery at this place. The new plant will employ about 150 hands.

WAYCROSS, GA.—Local papers state that the Meldrum Camphor Co. has located permanently in Blackshear, and will erect a plant as soon as plans can be prepared and contracts let. The company is capitalized at $500,000. Archibald Meldrum, Pres., Blackshear.

DEMOPOLIS, ALA.—It is stated that John H. Minge, of Fawndale, Ala., will, in connection with Lowell, Mass., capitalists, commence the construction at once in this place of a $100,000 cotton factory.

MONTGOMERY, ALA.—The Virginia-Carolina Chemical Co. has purchased 14 acres of land adjoining the mills of the Southern Cotton Oil Co. and will at once erect extensive fertilizer works.

WOODWARD, ALA.—It is reported that the Woodward Iron Co. will in addition to remodeling its two blast furnaces at this place, erect a third furnace. G. B. McCormack, Gen. Mgr.

JACKSON, TENN.—E. Burkitt, Secy. Southern Engine & Boiler Works, Jackson, writes that the contract for the equipment for the company's plant will be let in April. The building will be constructed by a local contractor.

NORWALK, O.—J. E. Carnahan, Edward E. Erickson and F. Prottsman, Sr., of Pittsburg, are interested in the project to establish a steel plant here to be known as the Norwalk Iron & Steel Co.

SANDUSKY, O.—The Hinde & Dauch Co. is contemplating the erection of a 3-story brick building on Water St., adjoining its present building. The new structure will be 45 × 80 ft., and is to cost about $25,000.

YOUNGSTOWN, O.—The Ohio Leather Co. has decided to increase the capital stock from $100,000 to $250,000. The company will erect a 4-story building.

MILWAUKEE, WIS.—A. Trostel & Sons, tanners, have purchased 400 ft. frontage on North Water St. and will erect new tannery buildings early in the spring.

ST. PAUL, MINN.—Financial arrangements have been made by the Jacob Schmidt Brewing Co. to provide for the extensive improvements being made to the company's plant, which will cost in the neighborhood of $250,000.

CHICAGO, ILL.—The packing plant of the G. H. Hammond Co., at Hammond, Ind., will be removed from there to the Union Stock Yards in this city. The company in making the change will enlarge the capacity considerably, and will erect yards at a cost of $1,500,000 to $2,000,000.——The American Rolling Mill Corporation of Chicago, with a capital stock of $1,000,000, has been incorporated to manufacture iron and steel. The incorporators are Lewis C. Straight, Henry Duffield and John C. Pirie.

BEAUMONT, TEX.—Robert Kunstman, Consulting Engineer, 84 Adams St., Chicago, writes us that most of the principal contracts for the building of the plant for the Central Asphalt & Refining Co., of Chicago, have been let. The company will erect a distillation plant of 7,000 bbls. of crude petroleum daily capacity and a converter plant to produce from 2,700 to 3,000 bbls. of asphalt daily.

HOUSTON, TEX.—A. F. Parker, of Houston, is engaged in organizing a company with $50,000 capital for the purpose of manufacturing camel's hair, press cloth and woolen goods.

ORANGE, TEX.—The Forward Reduction Co.'s plant and refinery is to be located here, according to reports.

## MISCELLANEOUS CONTRACTS.

DOCK.—Everett, Wash.—Bids are asked by the city clerk for repairing the city dock, at a cost of $17,000.

HEATING PLANT.—Elwood, Ind.—Wm. R. De Hority has been granted a franchise for a steam heating and hot-water plant.

TELEPHONE SYSTEM.—Menominee, Mich.—The Green Bay & Lake Michigan Telephone Co. has been granted a 21-year franchise.

STEAM ROAD ROLLER.—Buffalo, N. Y.—The county commissioners propose to build a steam road roller. G. C. Diehl, County Engr.

DITCHES.—Albert Lea, Minn.—The county commissioners propose to dig new drainage ditches, at a cost of $75,000. F. H. Fisk, Engr.

DITCH.—Decatur, Ill.—The Mattoon Bridge & Dredging Co. has been awarded the contract, at $9,680 for constructing the Milan drainage ditch.

STEEL STEAMER.—Philadelphia, Pa.—Bids are asked until Dec. 18 for constructing a steel steamer. H. W. Austin, U. S. M. H. S., 410 Chestnut St.

BREAKWATER.—Ruisseau Le Blanc, Que.—Bids are asked until Dec. 14 for constructing a breakwater. Fred. Gelinas, Secy. Dept. Pub. Wks., Ottawa.

WHARF.—Montreal, Que.—Bids are asked until Dec. 17 for constructing Windmill Point wharf, to cost about $500,000. Address the Harbor Commissioners.

DITCHES.—St. Cloud, Minn.—Bids are asked until Dec. 13 for constructing about 17 miles of ditches. J. D. Morgan, Engr., 812 Seventh Ave., So., St. Cloud.

DITCHES.—Corona, Cal.—An election will be held on Dec. 23 to vote on the question of issuing $94,000 in bonds for constructing a system of storm-water ditches.

BOILER.—Baltimore, Md.—Bids are asked until Dec. 21 for constructing and delivering a boiler for the lighthouse tender "Jessamine." Lt.-Col. W. A. Jones, U. S. Engr.

WHARF.—Seattle, Wash.—The Pacific Packing & Navigation Co., it is stated, will soon let contracts for a new wharf, to cost about $200,000. T. B. McGovern, Vice-Pres.

WHARF REPAIRS.—San Francisco, Cal.—The harbor commissioners have ordered extensive repairs to five wharves. The work on the Union St. wharf will cost about $10,000.

CEMENT.—Washington, D.C.—Bids are asked until Dec. 19 by the district commissioners for furnishing 9,000 barrels, more or less, of Portland cement, as stated in our advertising columns.

RIVER STRAIGHTENING.—Sioux City, Ia.—J. M. Lewis, Cy. Engr., writes us that the date of receiving bids for straightening the channel of the Floyd River has been postponed indefinitely.

BUILDING MATERIALS.—Chemawa, Ore.—Bids are asked by T. W. Potter, Supt. Indian School, Chemawa, for furnishing lumber, shingles, brick, lime, 100 bbls. of Portland cement, etc.

CREMATORIUM.—Kansas City, Mo.—We are informed that plans are being prepared by Hucke & Sexton Contracting & Building Co., 318 N. Y. Life Bldg., for a crematorium in this city.

RIVER BASIN.—Milwaukee, Wis.—A plan has been laid before Mayor Rose to dig a basin in the Menominee River large enough to enable the largest boats to turn around. D. M. Brigham, Chn. Citizens Sub-Com. on Engineering.

REPAIRING LIGHT STATION.—Mobile, Ala.—Bids are asked until Dec. 28 for furnishing the materials and for making repairs to the South Pass light station, La., as stated in our advertising columns. Lt.-Col. A. N. Damrell, U. S. Engr., Mobile.

APPROACHES.—New York, N. Y.—Thos. Dwyer has been awarded the contract, at $59,400, for constructing the approaches to the Soldiers' and Sailors' Monument at 89th St. and Riverside Drive. The monument complete will cost about $270,000.

DREDGING, ETC.—Toronto, Ont.—The engineers appointed to estimate the cost of constructing a 20-ft. channel between Lake Nipissing and Georgian Bay, a distance of 61 miles, have reported to Minister of Public Works Tarte; estimated cost, $4,000,000.

CONDUITS.—Indianapolis, Ind.—The board of works has acted favorably upon the petition of the Central Union Telephone Co. for permission to construct underground conduits north of 21st St. A branch exchange will be established at Pierson Place and 21st St.

RIVER WORK.—Winchester, Ont.—Thos. H. Dunn, Engr.-in-Charge, writes us that the council will soon ask for bids for enlarging and extending the Petite Castore River in the counties of Dundas and Russell; estimated cost, $65,000. Geo. Quart, Township Clk., Winchester.

GENERATOR AND PUMP.—New Orleans, La.—Bids are asked until Jan. 22 for constructing and erecting one 1,000-K.-W. generator, engine and boiler in the central power station and one pump at Metairie pumping station No. 6, with a delivery of 20 cu. ft. per second and a lift of 10 ft. R. M. Walmsley, Pres. Drainage Commission. Irwin Jamison, Secy.

RIVER STRAIGHTENING.—Utica, N.Y.—Bids are asked until Dec. 29 for straightening and turning the Mohawk River, consisting of 551,000 cu. yds. of excavation for a new channel, making about 187,000 cu. yds. of embankment and small amount of masonry work, and depositing about 375,000 cu. yds. of surplus material on adjoining lands, as stated in our advertising columns. Jas. F. Mann, Chn. Mohawk River Comrs.; S. E. Babcock, Ch. Engr.

BRIDGE SUPPLIES.—New York, N. Y.—Bids are asked by the department of bridges, 21 Park Row, until Dec. 12 for furnishing about 40,900 lbs. of iron plates or sheets, painted; about 9,950 lbs. half-oval iron, ⅝-in. × 1-in., painted; about 3,550 lbs. 4-in. × 4-in. × 5-16-in., iron angles, painted; 800 iron bolts, ¾-in. × 2-in., square heads and nuts; 2,800 iron bolts, ¾-in. × 1½-in., button heads and square nuts; 9,000 stove bolts, ¼-in. × 1½-in., countersunk heads; about 3,600 lbs. iron bars, 4-in. × ¾-in., in 12 lengths of 30 ft. each.

TORPEDO BOAT SLIPS.—Norfolk, Va.—The following bids were received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., Nov. 30 for constructing slips for housing torpedo vessels at torpedo boat rendezvous No. 2, navy yard; (1) being for the work complete, (2) complete, except that slips will be dredged to a depth of 15 ft. instead of 20 ft., and that all piles will be 5 ft. shorter than the corresponding piles under item No. 1. Alsop & Pierce, P. O. Box 16, Newport News, Va., (1) $165,556, (2) $149,364; time, 6 mos. Frank Pidgeon, P. O. Box 78, Portsmouth, Va., (1) $205,194, (2) $169,996. Clement Walker, P. O. Box 671, Norfolk, Va., (1) $145,318, (2) $130,035. Sanford & Brooks Co., 21 South Gay St., Baltimore, (1) $149,000, (2) $139,000, 8 mos. Hoffman Engineering & Contracting Co., Harrison Bldg., Philadelphia, Pa., (1) $152,250, omitting rolling fenders, (2) $140,350, 6 mos.

## U. S. POSSESSIONS AND CUBA

BRIDGE.—Corozal, P. R.—Governor Hunt has appropriated $12,000 for erecting a bridge over the Manilla River, near Corozal.

FEDERAL BUILDING.—Honolulu, H. I.—Acting Governor Cooper, of Hawaii, has recommended to E. A. Hitchcock, Secy. of Interior, Washington, D. C., that a federal building be built in Honolulu.

TRACK SUPPLIES.—Matanzas, Cuba.—Rhodes Fisher, Jr., of the F. C. U. H., Matanzas, Cuba, writes us that he wants catalogues of track supply manufacturers.

ELECTRIC PLANT, SEWERS, ETC.—Mayaguez, Porto Rico.—Bids are asked until 4 p. m. Dec. 5 for the purchase of $200,000 of 6% bonds, the proceeds to be used for building an electric plant, a sewerage system, completing the water-works, erecting new slaughter houses, etc. M. Fajardo, Mayor of Mayaguez.

NAVAL STATION.—Hawaii.—The Secretary of the Navy, Washington, has recommended that the following appropriations be made for a naval station in Hawaii: Machine shop, $50,000; smithery and foundry, $25,000; Commandant's house and stables, $15,000; grading and fencing, $10,000; 10-ton wharf crane, $800; water-pipe system, $1,000.

## FOREIGN CONTRACTS AND EXPORT NEWS

DOCK.—Gibraltar.—Reports state that the British government has sent out an engineer to report on the practicability of establishing a new dock on the east of Gibraltar.

ELECTRIC PLANT.—Pontypridd, Wales.—Bids are asked until Dec. 14 for furnishing and installing an electric power plant, traveling crane, etc. R. P. Wilson, Consult. Engr.

HAND CARS.—Cuba.—Rhodes Fisher, Jr., care F. C. U. H. y A., Ltd., Matanzas, Cuba, writes us that he will soon be in the market for hand cars and wishes to secure catalogues, prices, etc.

ELECTRIC TRAMWAY.—Berlin, Germany.—The committee of the municipality has adopted the plans suggested by the Emperor for an electric tramway, to pass underneath Unter den Linden.

PROMENADE.—Blackford, Eng.—The corporation proposes to build a promenade, to be 100 ft. wide and about four miles long, at a cost of about $2,000,000. Jeremiah Wolstenholme, Borough Surv.

ELECTRIC TRAMWAYS.—Geneva, Switzerland.—It is reported that the Compagnie Genevaise des Tramways Electriques will equip its 81 miles of road with electricity. H. L. Washington, U. S. Consul at Geneva.

CANAL.—Mexico.—Work will soon be begun on the proposed government canal between Tampico and Tuxpan. The government will furnish the machinery, etc., to the contractors. Chas. Shillaber is the engineer.

ELECTRIC TRAMWAY.—Northampton, Eng.—U.S. Consul McFarland, of Nottingham, Eng., reports that the municipality of Northampton has acquired the horse tramways, which the city proposes to extend and equip with electricity.

PUBLIC WORKS.—Belgium.—The Budget of the Minister of Public Works for 1902 amounts to about $7,000,000 and provides for numerous undertakings in building, canal improvement, and improvements to the river Scheldt, and coast works.

ELECTRIC RAILWAY. — Shanghai, China. — Reports state that Fearon, Daniels & Co., 87 Front St., New York, are reported as interested in a proposed electric road in Shanghai, bids for the concession for which are understood as now being received.

ELECTRIC TRAMWAY.—Penang, Straits Settlements.—O. V. Thomas is reported to have submitted a report on equipping the steam tramway with electricity, at a cost of about $250,000. Sir Wm. H. Preece, Consult. Engr., Gothic Lodge, Wimbledon, London, S. W., Eng.

RAILWAY.—Dahomey, Africa.—Reports state that the French government has granted a charter for a railway from Kotonu, in Dahomey, northward for 200 miles, to Georges Borelli, a West African merchant of Nantes, France. Work, it is stated, has already been begun.

UNDERGROUND RAILWAY.—London, Eng.—Reports state that Chas. T. Yerkes, of London and New York, has signed contracts for the construction of a tube for an electric railway just below the existing old District Underground Ry., for the purpose of running a fast express service.

COLONY.—Mexico.—Reports state that Henry Prembert, of Topolobampo, Mex., and Col. A. K. Owen, of New York, are promoting a scheme to found a colony at Topolobampo on the K. C., M. & O. R. R., now under construction. It is proposed to develop the land, to build port facilities, etc., at that place.

STEEL RAILS AND FISH-PLATES.—Glasgow, Scotland.—Bids are asked until Dec. 20 for furnishing the following for the tramways: 2,000, 3,000 or 4,000 tons steel straight track rails, 200, 300 or 400 tons steel curved rails, 100, 150 or 200 tons steel fish-plates. John Young, Gen. Mgr., 88 Renfield St., Glasgow.

ELECTRIC RAILWAY.—Puebla, Mex.—A concession has been asked by Elertson & Risse from the government of State of Puebla for an electric railway from Puebla to Cholula and Tectimechuacan, and to cotton factories known as Mayorazgo, Guadalupe and La Noria. Applicants will get their power from certain falls 40 kilometers from Puebla.

ELECTRIC TRACTION.—London, Eng.—Reports state that the London, Brighton & South Coast Ry. Co. has appointed Maj. Cardew and Philip Dawson, 39 Victoria St., S. W., London, as consulting electrical engineers to advise on the subject of electric traction and in connection with electric works on the line. The Brighton & South Coast line has a heavy suburban traffic out of London, and in the summer to seashore resorts.

PACKING PLANTS, ETC.—Mexico.—Reports state that O. W. Butts, of Kansas City, Mo., is reported as stating that he has concessions from the Mexican government for two additional canning and packing plants in Chihuahua, which it is proposed to erect at once. It is stated that several companies have been formed in Mexico to build smelting and refining plants at Hidalgo Del Parral, Guanaoevi, Ameca, Torreon, Mapima, Durango and Tepuitlan.

BRIDGES.—Mexico.—It is announced that a number of new steel bridges will be erected on the Monterey & Mexican Gulf R. R. between Monterey, Mexico, and Tampico. They will take the place of wooden structures. The physical condition of this road is to be improved in other respects, and A. A. Robinson, Pres. Mexican Central R. R., says it will be brought up to the standard of the latter road. Both roads are now under control of the H. Clay Pierce syndicate.

RAILWAY.—Mexico.—A proposition for the building of a standard-gage railroad between Monterey and Matamoras, the latter being located near the mouth of the Rio Grande, opposite Brownsville, Tex., has been submitted to congress by the Mexican National Ry. Co. The distance is about 200 miles. Assurances have been received that the Mexican congress will act favorably on the proposition. Under its terms the Mexican National must complete the road within two years, and shall receive a subsidy of $8,000 for each kilometer of road constructed.

ARTESIAN WELL MACHINERY, ETC.—Spain.—We are informed that J. F. Vilalta, importer of American machinery, Paseo de Gracia 38, Barcelona, Spain, wants to secure catalogues of artesian well machinery. It is intended to open a well in a land of alluvian 20 meters or more in depth. Catalogues are also wanted of machinery for making glass cement, machinery for decorating plain glass, etc. It is desired that the discounts, terms, weights, cubic measures, etc., be given. Catalogues are also wanted of leather belt sewing machine, using copper wire to sew and operated by steam power.

## CONTRACT PRICES.

SHELL ROAD.—St. Bernard, La.—L. J. Mestier, of New Orleans, La., has been awarded the contract at 28 cts. a bbl. for shells for the government shell road. The Jahncke Improvement Co. bid 28½ cts.

DREDGING.—Boston, Mass.—The New England Dredging Co. has been awarded the contract by the land and harbor commissioners at 32⅞ cts. a cu. yd. for dredging in Boston Harbor, near Union Wharf. The Bay State Dredging Co. bid 35½ cts., and the Eastern Dredging Co. 34 cts. a cu. yd.

REMOVING SNOW AND ICE.—New York, N. Y.—John F. Maillie, who has the present contract, has been awarded the contract for removing the snow and ice in Brooklyn for the coming winter, at 49 cts. a sq. yd. and for Manhattan at 36¾ cts. John D. Crimmins, who has the present contract in the Bronx, has again received the contract at 34¼ cts.

SIGNAL WIRE.—Washington, D. C.—The chief signal officer, War Department, received the following bids Nov. 27, 1901, for furnishing signal wire: Manhattan Electric Supply Co., New York, bare copper wire, $19.50 per 100 lbs.; H. A. Read, New York, insulated wire, $52 per mile; India Gutta Percha Co., Boston, Mass., insulated $41, bare $15; W. R. Brixey, New York, naked, 18⅝ cts. per lb.; insulated, $50 per mile; time, 40 days; Safety Insulated Wire & Cable Co., New York, naked, 19 cts. a lb., insulated, $48.90 a mile; Western Electric Co., New York, bare 17¾ cts. a lb.; J. A. Roebling's Sons Co., New York, bare $18.25 a 100 lbs., insulated $10 per M. ft.; Hazard Mfg. Co., New York, bare 18¼ cts. a lb., insulated $40 a mile; N.Y. Insulated Wire Co., New York, insulated $50 a mile; Okonite Co., New York, bare 21 cts. a lb., insulated $16 a M. ft., time 21 days.

PAVING.—Toledo, O.—The following bids were received by the city clerk Nov. 18, 1901, for paving in certain streets: Parkwood Ave., Bancroft to Virginia St., Garrigan Bros., brick blocks, $1.55 per yd. for Logan block; C. W. McKinney, $1.43 for Wassall block. Garrigan Bros. and H. G. Jennison each bid $2.50 for creosote block, and Garrigan offered to do the grading for 25 cts., while the Jennison grading bid was 18 cts. On asphalt block, the bid of Jennison to do the work on a sand foundation for $2.16 per yd. was lowest. H. G. Jennison, River Place, between Summit and Superior, $1 per yd. for Harris paver, on sand; $2.16 per yd. for creosoted wood block; $2.50 for asphalt block. Garrigan Bros. bid $2.50 per yd. for asphalt block on concrete, and $2.25 for the same on sand. Their bid for creosoted wood block was the same. Indiana Ave., City Park Ave. to Ewing St., Kerlin Bros., $1.39 for Logan block on concrete, and 99 cts. for the same material on sand; Jennison, $1.40 and $1 on Buckeye block, and O'Sullivan & Sheehan bid $1.40 and $1.02 for Wassall block; Garrigan Bros. bid $2.25 for asphalt block on sand and $2.35 for the same material on broken stone. Ontario st., Buckeye to Galena, Jennison was lowest bidder, $1.40 per yd. on Buckeye block and Harris paver. On this street O'Sullivan & Sheehan bid $2.48 on asphalt block. Other bidders on these streets were the Barber Asphalt Paving Co., C. W. McKinney, W. H. & J. J. Lieth and T. J. Kelly.

## ENGINEERING MATERIAL PRICES

TRACK MATERIAL—
- New York Tidewater—Steel splice bars, 1.65 cts.; spikes, 2.00 cts.; track bolts, hexagon nuts, 2.65 to 2.70 cts.
- Chicago—Steel splice bars, 1.65 to 1.75 cts.; spikes, 2 to 2.10 cts.; track bolts, hexagon nuts, 2.90 to 2.95 cts.; square nuts, 2.75 to 2.80 cts.
- Pittsburg—At mill, splice bars, 1.50 to 1.60 cts.; spikes, 2.00 cts.; track bolts, sq. nuts or hex. nuts, 2.50 to 2.65.

RAILS, STEEL—
- New York—F. o. b., new, $28; old iron, $19 to $20; old steel, $16 to $17.
- Chicago—New, $28; old iron, $21 to $21.50; old steel, mixed lengths, $14.00 to $14.50.
- Pittsburg—New, at mill, $28; old iron, f. o. b., $21 to $22; old steel, $16 to $17.

STRUCTURAL STEEL—
- New York—At tidewater, beams, 1.75 to 1.80 cts.; channels, 1.75 to 1.80 cts.; tees, 1.80 to 1.85 cts.; angles, 1.75 to 1.80 cts.
- Chicago—Beams, 15 ins. and under, 1.75 cts.; 18 ins. and over, 1.85 cts.; channels, 15 ins. and under, 1.75 cts.; 18 ins. and over, 1.85 cts.; tees, 1.80 cts.; angles, 1.75 cts.
- Pittsburg—Channels and beams, 15 ins. and under, 1.60 cts.; 15 ins. and over, 1.70 cts.; tees, 1.65 cts.; angles, 3 × 2 to 6 × 6, 1.60 cts.; smaller sizes, 1.55 cts.

PLATES AND SHEETS—
- New York, tidewater—Universal mill plates, 1.78 to 1.80 cts.; tank, 1.80 to 1.85 cts.; flange, 2 to 2.05 cts.; firebox, 2.00 to 2.05 cts.
- Chicago—Universal mill plates, 1.75 to 1.85 cts.; tank, ¼-in. and heavier, 1.75 to 1.80 cts.; shell, 1.95 cts.; flange, 1.85 cts.; firebox, 2.00 cts.; sheets, No. 27, 3.50 to 3.70 cts.
- Pittsburg, f. o. b.—Universal mill plates, 1.60 cts.; tank, ¼-in. and heavier, 1.60 to 1.70 cts.; shell and flange, 1.70 cts.; firebox, 1.85 cts.; sheets, black, 27 gage, 3.15 to 3.25 cts.; black, 28 gage, 3.25 to 3.50 cts.

MERCHANT STEEL—
- Tool, Pittsburg, per lb., 6 cts. and upwards.

IRON—
- Pig Iron.
  - New York—Tennessee and Alabama, No. 1 foundry, $16.50; No. 2 foundry, $15.25; No. 3 foundry, $14.75; No. 4 foundry, $14.25; No. 1 soft, $16.00; No. 2 soft, $15.25.
  - Chicago—Local coke foundry: No. 1, $15.50 to $16; No. 2, $15 to $15.50; No. 3, $14.50 to $15.00.
  - Pittsburg—No. 2, $15.75 to $16; No. 2 for next year's delivery, $15.50 to $15.75; No. 1, $16 to $16.50, Pittsburg.
- Bar Iron:
  - Pittsburg, on dock—1.55 cts.; for eastern shipment; 1.50 cts. for western shipment; steel bars, at mill, 1.50 cts.

LUMBER—
- New York:
  - Hemlock timber, 20 ft. and under, per M. $15 to $15.50.
  - Piling, Eastern spruce, 35 to 40 ft., 30 to 40% 12-in. butts, 6 to 7 cts.
  - Yellow pine, random cargoes, $19 to $20.
  - North Carolina pine, $3.50 to $4 advance over Norfolk rates.

GENERAL MATERIALS—
- Lead, pig, New York, 4.37½ cts.; St. Louis, soft Mo., 4.25 cts.
- Spelter, St. Louis, 4.12½ cts.
- Copper, ingots, 16.85 to 17.00 cts.

## INDUSTRIAL NOTES.

THE EUGENE DIETZGEN CO., 181 Monroe St., Chicago, has moved its New York office from 149 Fifth Ave. to 119-121 West 23d St.

JOHN F. ALLEN, 310 Gerard Ave., New York, has just shipped four portable pneumatic riveting machines to the British Westinghouse Electric & Mfg. Co., Manchester, England.

THE BOSTON & LOCKPORT BLOCK CO., Boston, has moved its offices from 142 Commercial St. to 160 Commercial St., where it now occupies the entire building of five floors and basement.

THE HELWIG MFG. CO., St. Paul, has sold several of its reversible pneumatic drills for use in the Construction Department, U. S. Navy Yard, at Mare Island, Cal. The drills were given a thorough trial before being purchased.

THE REDWING SEWER PIPE CO., Redwing, Minn., has been incorporated, with a capital stock of $300,000, to consolidate all the sewer pipe plants at Redwing. Pres., John H. Rich; Vice-Pres., E. H. Blodgett; Secy., Chas. E. Sheldon; Treas., H. S. Rich; Counsel, C. M. Hall. Press reports state that the capacity of the plants will be increased.

THE BATES & ROGERS CONSTRUCTION CO., 1203 Manhattan Building, Chicago, has the contract for the substructure of the Des Moines River bridge of the Mason City & Fort Dodge Ry. (Chicago Great Western Ry. system), at Fort Dodge, Ia. The bridge will be 2,000 ft. long and 135 ft. high. The substructure will comprise 8 piers, 2 abutments and 64 pedestals.

W. BLACKBURN SMITH, Perth Amboy, N. J., reports a large number of recent orders for the Rankine's patent feed water filter, including two sets, 50,000 HP. capacity, for the two new vessels of the Great Northern Steamship Co., now building at New London, Conn.; 20,000 HP. for the "New York," now undergoing reconstruction at Cramps' yards, and one order for export to Japan.

THE TYRONE FOUNDRY & MACHINE CO., Tyrone, Pa., has been awarded the contract for the erection of a stone crushing plant for the Marquis Limestone & Clay Co., of Newcastle, Pa., to have a crushing capacity of 1,500 to 2,000 tons of furnace stone per ten hours. The company has also in course of construction a 5-jaw Morris improved stone crusher for the Blair Limestone Co., Ltd., Hollidaysburg, Pa.

THE UNION SWITCH & SIGNAL CO., Swissvale, Pa., is having an exceptionally large business in its Union electric automatic semaphore signal for block and interlocking work. It is already in use on the Pennsylvania; New York Central; New York, New Haven & Hartford; Atchison, Topeka & Santa Fe, and other large railway system, while orders now in hand call for installations on from 1 to 175 miles of road.

THE HAMPTON ROADS CREOSOTING CO., Norfolk, Va., has been incorporated, with a capital stock of $150,000, which may be increased to $300,000. Pres. and Treas., E. A. Buel, Norfolk, Va.; Secy., Percy A. Smith, Berkley, Va. Geo. W. Elkins and Michael Ehret, of Philadelphia, and Edmund Christian and Wm. F. Carter, of Norfolk, are the directors. We are informed that the company will not be organized for business for several months.

THE AMERICAN STEEL & WIRE CO., New York, exported during October nearly 7,500 tons of wire and wire nails. This is nearly 40% more than in September.

M. H. TREADWELL & CO., 95 Liberty St., New York, have rented for ten years the plant of the Lebanon Mfg. Co., Lebanon, Pa., at an annual rental of $18,000. New machinery, to cost $30,000, will be added and the works will be operated in connection with the present works of the Treadwell Co. at Myerstown.

THE ROBINS CONVEYING BELT CO., 14-21 Park Row, New York, has recently installed a Robins belt conveyor for the Delaware, Lackawanna & Western R. R. at its power house in Hoboken, N. J. A hopper beneath the track feeds the coal into a 12-in. belt conveyor, which carries it into the building and distributes it through the storage bins by means of an automatic tripper. By this means it is claimed that the contents of a 25-ton car are stored away in half an hour. The company has also installed ten or more for the D., L. & W. R. R. for handling coal at its coal breakers and locomotive coaling stations.

THE JAMES LEFFEL & CO., Springfield, O., report the following recent shipments of steam engines and boilers: 8 × 10 engine to Porto Rico; complete new outfit of 50-HP. automatic engine, with 60-HP. boiler, for flour mill plant in Wisconsin; complete new outfit of 8 × 10 engine, with 25-HP. boiler, for hat factory at Oaxaca, Mex.; 6½ × 10 automatic engine for electric plant on plantation near Santiago, Cuba; 6-HP. horizontal engine and boiler, mounted on skids, for driving a portable wood-sawing outfit in Wisconsin; 6½ × 10 engine and boiler complete for Barranquilla, Colombia, S. A.; 7½ × 10 automatic engine and 3-HP. vertical engine and boiler to Spain; 7 × 10 engine and boiler to Monterey, Mex.; 9½ × 12 automatic engine for flour mill at Decatur, Ind. This company is also installing in its own shops considerable new equipment in the way of machine tools, new power plant, including a 100-K.-W. direct-connected unit, new blower system of heating, new electric traveling crane over large erecting floor, new down-draft furnaces in connection with new blacksmith shop equipment, etc.

THE CROCKER-WHEELER CO., Ampere, N. J., reports a large number of orders on hand and that for some months it has been working a regular night shift. Shipments last month include the following generators: two 520-K.-W. for the American Smelting & Refining Co., Perth Amboy, N. J.; three 400-K.-W. and one 100-K.-W. for the Alsen Cement Plant, West Camp, N. Y.; one 400-K.-W. for the Christensen Engineering Co., Milwaukee; one 300-K.-W. for the Balbach Smelting & Refining Co., Newark, N. J.; three 200-K.-W. for the Stetson & Co.'s new power plant, Philadelphia; one 375-K.-W. for the Anglo-American Provision Co., Chicago; one 400-K.-W. and one 75-K.-W. for the Lake Shore & Michigan Southern R. R.; one 200-K.-W. for the Vandergrift Construction Co. for railway work; one 200-K.-W. for the Crucible Steel Co., of Blair, Pa.; one 150-K.-W. for Latrobe Steel Co.; one 200-K.-W. for the Otis Elevator Co., and one 100-K.-W. for the U. S. Tube Co. The Crocker-Wheeler Co. has also completed the shipment of the 40-K.-W. direct-connected generator and 50 or 60 motors for the government printing office in Manila, Philippine Islands. Recent orders received include two 500-K.-W. generators for the Singer Mfg. Co., South Bend, Ind.; two 200-K.-W. belted generators for Sayre & Fisher, Sayreville, N. J.; one 60 and one 30-K.-W. generator for the Orange Brewing Co., with various motors ranging from 35 to 2-HP.; four 140-K.-W. generators for the Fort Hill Chemical Co., Rumford Falls, Me.; two 75-K.-W. generators for Henry Lang & Co., Newark, N. J.; one 90-K.-W. generator for the U. S. Electric Lighting Co., Washington, D. C. Shipment of 13 motor dynamos for the Western Union Co.'s plant, Milwaukee, and the electric equipment of Skinner & Sethman Publishing Co.'s plant, Denver, Colo., consisting of 40-K.-W. generator and 28 motors, will also be made this month.

## Experience as a Teacher.

The Burlington, Iowa, "Hawkeye" claims that the recent advertising for bids for electric lighting will result in a saving to the city of 30%, and to private consumers of 25%. Its statement is as follows:

### ADVERTISING PAYS.

#### Money Saved by New Lighting Contract.

Advertising pays. For a proof of this statement, if such proof were needed, see the new contract for city lighting. * * * The good citizens who insisted that the council should advertise for bids, knew whereof they spoke. The results are even greater and more valuable than the advocates of advertising anticipated. Burlington gets a reduction of 30 per cent. in the cost of its electric lights, which means that a large area which up to the present has not been sufficiently lighted, will, in the near future, be well illumined. And the private consumers will get the benefit of a 25 per cent. reduction in their lighting bills—which will surely be appreciated by all.

The proposal advertisement for the above was published for three weeks in ENGINEERING NEWS. Whether the satisfactory result was attained by this or other advertising cannot be stated, but such advertisements in ENGINEERING NEWS cost very little, and we know that when they are inserted in this paper the results are invariably satisfactory.

## Mail Delivery Notice.

The first pages of Engineering News go to press on Monday each week, and the last pages, including "Wants," "Proposals" and "For Sale" cards, about Wednesday noon. All papers for Boston, Philadelphia, Washington and Greater New York should be received **Thursday morning.** All places East of the Mississippi should be reached by Friday afternoon.

**If your paper is not received promptly, make a complaint in writing to your local post-office officials.** This will cause an investigation, and the complaint will finally reach the office where the delay occurs.

Contract Work Should Always be Advertised in a Paper Read by Contractors.

NEARLY EVERY PROMINENT CONTRACTOR and Manufacturer of Contractors' Supplies IN NORTH AMERICA READS THIS PAPER

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